

A1775-3 u

gas facts

1981 DATA

- ENERGY RESERVES ■ NATURAL GAS SUPPLY
- UNDERGROUND STORAGE
- DISTRIBUTION AND TRANSMISSION
- ENERGY CONSUMPTION
- CUSTOMERS ■ SALES ■ REVENUES
- PRICES ■ APPLIANCE AND HOUSING DATA
- FINANCE ■ PERSONNEL DATA

- GLOSSARY ■ INDEX

Published by: The American Gas Association
1515 Wilson Boulevard
Arlington, Virginia 22209

Prepared by: Policy Evaluation and Analysis Group

Michael I. German, Vice President
Robert B. Kallsch, Director, Gas Supply and Statistics
Patrick J. Curley, Manager, Statistical Services

GAS FACTS
1981 DATA

COPYRIGHT, 1982
by the American Gas Association

Unless otherwise noted, material presented in this volume is based on data collected from individual utilities by the Department of Statistics of the American Gas Association. It may be excerpted without charge, but credit to the source is requested.

Printed in the United States of America

Catalog #F10181

AMERICAN GAS ASSOCIATION

The American Gas Association assumed its present status as the gas utility industry trade association in 1927, after a merger of two predecessor organizations. It renders assistance to the gas utility industry so that the industry may serve its customers more efficiently. Dependence is placed upon the voluntary cooperation of gas companies and established committees composed of representatives from these companies.

The Association recognizes the need for factual information regarding the gas industry for the use, not only of industry organizations, but also interested outside publics. Its statistical efforts are a vital part of this function, and the publication of *Gas Facts* is one result of these efforts. The statistical activities of A.G.A. are performed by the Department of Statistics with guidance provided by the Statistics and Related Economics Committee.

1982-83

Statistics and Related Economics Committee

JOHNIE M. LOVELESS, JR., Manager, Customer Affairs, Southern Natural Gas Company, Chairman
CHARLES J. EIDLER, Director, Budget & Sales Analysis, Northern Natural Gas Company, Vice Chairman
REGINALD G. FULLER, Vice President, Accounting & Information Systems, Washington Gas Light Company, Division Chairman
GREGORY G. PHALEN, Secretary & Treasurer, Battle Creek Gas Company, Assistant Division Chairman
PATRICK J. CURLEY, Manager, Statistical Services, American Gas Association, Staff Executive
J. CARL ADAMS, Director, Statistics & Analysis, Atlanta Gas Light Company
THOMAS S. BALL, Financial Analyst, Northwest Pipeline Corporation
ROGER A. BERNARD, Staff Assistant, Rates, El Paso Natural Gas Company
JOSEPH A. BETTINGER, Manager, Research & Statistical Services, National Fuel Gas Distribution Corporation
JOHN A. BUCKLEW, Coordinator, Gas Supply Planning, Dayton Power & Light Company, The
AUBREY BUTLER, Manager, Regulatory Administration, Union Gas Limited
DONALD F. CARROLL, Assistant Controller, East Ohio Gas Company, The
WILLIAM Y. CHUNG, Superintendent, Economic Research Department, Peoples Gas Light & Coke Company, The
GERALD W. CORNWALL, General Supervisor, Statistical Services, Northern Illinois Gas Company
DAVID A. DOCTOR, Manager, Planning, Texas Gas Transmission Corporation
CHUCK FLEENOR, Director, Technology, Piedmont Natural Gas Company, Inc.
ALLAN S. FOWLER, Supervisor, Statistical Resources Section, Pacific Gas & Electric Company
JOHN W. HALL, Supervisor, Performance Measurement, Analysis and Special Studies, South Carolina Electric & Gas Company
JAMES R. HARRINGTON, Director of Budget & Forecast, United Gas Pipe Line Company
CHRISTOPHER JOANNIDES, Manager, Energy Forecasting, Public Service Electric & Gas Company
RAYMOND P. KINNEY, Supervisor, Rate & Tariff Design, Southwest Gas Corporation
JAMES A. METCALF, JR., Assistant Controller, Oklahoma Natural Gas Company
CRAIG E. NEAR, Manager, Statistics & Financial Studies, Consumers' Gas Company, The
WILLIAM G. RASMUSSEN, Coordinator, Rates & Forecasting Systems, Alabama Gas Corporation
T. D. STEPHENS, Assistant Vice President, Energas Company
GLEN P. THOMAS, Manager, Gas Accounting, Transcontinental Gas Pipe Line Corporation
ROGER J. WALZ, Manager, Corporate Planning Department, Brooklyn Union Gas Company, The

CONTENTS

	Page
Introduction	ix
Section I: 1981 in Review	1
Section II: Energy Reserves	5
Section III: Natural Gas Supply	23
Section IV: Underground Storage	49
Section V: Distribution and Transmission	57
Section VI: Energy Consumption	67
Section VII: Customers	75
Section VIII: Sales-Quantities	85
Section IX: Revenues	105
Section X: Prices	117
Section XI: Appliances and Housing Data	133
Section XII: Finance	
Part 1. Security Issues	143
Part 2. Income Accounts	157
Part 3. Balance Sheets	167
Part 4. Analytical Ratios	175
Part 5. Construction Expenditures	183
Section XIII: Personnel Data	187
Appendix A: Glossary of Gas Industry Terms	193
Appendix B: Conversion Table*	205
Appendix C: Company Listings	207
Index	209

*For those unfamiliar with the gas industry energy equivalents, unit conversions are given here.

LIST OF CHARTS

Chart Number	Page
1. Selected Gas Industry Highlights of 1981	3
2. Proved Reserves and Net Production of Natural Gas in the United States, 1960-1981	7
3. Net Production and New Additions to Gas Reserves, 1970-1981	9
4. Natural Gas State Reserves and Production for 1979, 1980 and 1981	12
5. World Estimated Natural Gas Reserves, 1981	22
6. United States Energy Production, 1960-1981	30
7. Total Gas and Oil New Well Completions, 1955-1981	39
8. World Production, 1980	45
9. Number and Capacity of Existing Underground Storage Reservoirs, 1960-1981	52
10. Gas Utility Industry Miles of Pipeline and Main, 1955-1981	58
11. United States Energy Consumption, 1955-1981	69
12. Gas Utility Industry Customers, by Class of Service, 1961-1981	76
13. Gas Utility Industry Househeating Customers, 1955-1981	81
14. Gas Utility Industry Sales, by Class of Service, 1955-1981	86
15. Gas Utility Industry Sales, by Month, 1978-1981	98
16. Gas Utility Industry Revenues, by Class of Service, 1955-1981	106
17. Residential Prices of Fuels and Electricity, and Consumer Price Index, 1960-1981	126
18. Gas Utility New Security Issues, 1955-1981	144
19. Gas Utility Industry Composite Income Accounts, 1955-1981	158
20. Gas Utility Industry Disposition of Net Income and Taxes, 1960-1981	159
21. Gas Utility Industry Investment, 1955-1981	168
22. Gas Utility Industry Financial Ratios, 1955-1981	176
23. Gas Utility Construction Expenditures, 1960-1985	184
24. Gas Utility Industry Payroll, Employees and Average Wage, 1955-1981	188

INTRODUCTION

GENERAL

This publication contains detailed statistics for 1981 and summary statistics for 1955-1980 for the gas utility industry which by definition, consists of the companies engaged in natural gas distribution and transmission. The publication also contains relevant data on the gas producing segment of the industry and key statistics on other energy industries.

Production data of the gas industry, and pertinent other energy industry data are also included. Gas volumes are expressed in millions of cubic feet and in British thermal units (Btu) to permit direct comparison with other energy data. A conversion table is included as Appendix B.

Appendix C contains a sample listing of gas utility companies according to their classification as distribution, transmission, integrated, or in some cases, combination companies. These classifications are defined in the glossary, Appendix A.

SOURCES OF INFORMATION

Most of the statistical information contained in this volume is developed from data contained in the "Uniform Statistical Report," a detailed information form prepared annually both by electric and gas utility companies. Information is also derived from reports filed with regulatory commissions, from financial publications, and from statistical reports prepared by government and private agencies. For 1981, the gas utility companies participating in the Uniform Statistical Report survey represented 93 percent of total gas utility industry sales. Data for non-reporting companies, whose sales represent the remaining 7 percent, were estimated based on recent historical experience.

Employee accident data were taken from A.G.A.'s "Disabling Injury Experience of the Gas Utility Industry" report. Estimates of proved reserves of natural gas, natural gas liquids and petroleum were taken from the U.S. Department of Energy report "U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves," 1981 annual report. Since this time series only begins in 1977, A.G.A., API and CPA data on natural gas reserves, 1955-1979, is presented. Statistics on underground storage operations were developed by the A.G.A. Committee on Underground Storage. Data for gas spaceheating customers were taken from A.G.A.'s "Gas Househeating Survey." Data on new security issues, as well as related cost and yield data, were derived from various financial publications, supplemented by data provided in the Uniform Statistical Report.

ACKNOWLEDGEMENTS

Our thanks go to those companies participating in the Uniform Statistical Report information gathering effort. Their cooperation and support are the essential elements which have made this publication a primary source of gas utility industry data, and an important industry reference. The cooperation of the public and governmental agencies credited in tables is also greatly appreciated.

Credit also goes to Senior Energy Statistician Joe Roccanova, Energy Statisticians Shirley Fontaine and Laura Cover and Summer Intern Anne Borish. Also contributing to the effort were Tim Wood and Annette Flemming of the Computer Services Department; Bob Kalisch—Director, Gas Supply and Statistics; and Patrick Curley—Manager, Statistical Services.

SECTION I

1981 IN REVIEW

1981 statistics again show the same trend experienced in 1980; a continued improvement on the supply side and a slight decrease in gas utility sales on the demand side.

1981 marked the first time since 1970, when the Alaskan Prudhoe Bay reserves were reported, that reserve additions outpaced production. Reserve additions totalled 21.446 Tcf while production totalled 18.737 Tcf. Gas well drilling continued at record levels, with 17,894 wells completed in 1981, up 13.8% over 1980. Both of these factors indicate continued supply side improvements.

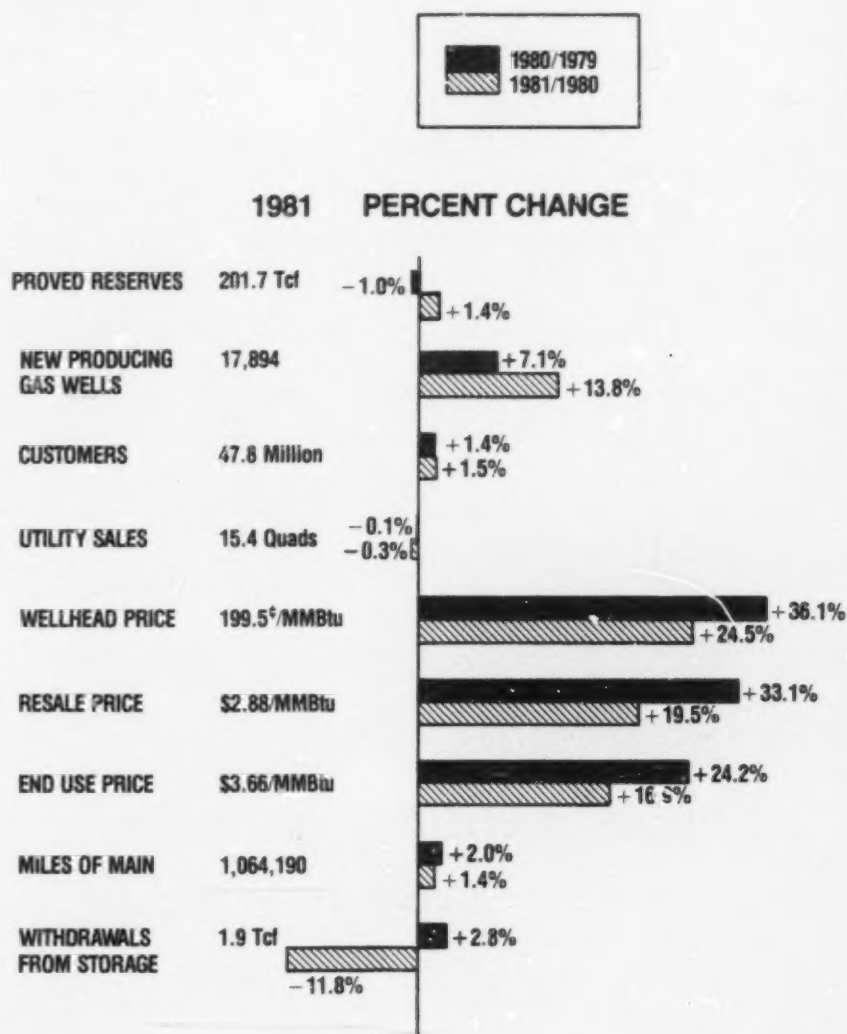
Distribution and transmission facilities increased to 1,064 thousand miles of distribution main and pipeline, and storage capacity increased to almost 7.6 Tcf. Thus the gas utility industry's deliverability capability has continued to improve.

1981 consumption of total energy in the United States declined 2.8% from 1980 with natural gas consumption decreasing 3.1%. Conservation continues to play an important role in natural gas consumption. The average residential consumption per customer of natural gas was 104.4 million Btus, the lowest level since 1959, even though the number of residential customers increased almost 620 thousand to 44.05 million.

Gas utility industry sales decreased 0.3 percent in 1981 to 15,379.9 trillion Btus. All classes of service experienced a decline except for the industrial sector, which increased 3.3 percent. Electric generation sales increased 6.7 percent. Industrial sales increased 2.1 percent when electric generation sales are not included.

The natural gas price to end-users rose 16.9 percent in 1981 to an average of \$3.66 per million Btus. Wellhead and city gate prices rose 24.5 and 19.3 percent respectively. The average residential price rose to \$4.18 per million Btus, compared to \$17.26 for electricity and \$8.95 for number 2 fuel oil. The increases in residential prices were 15.6 percent for natural gas, 19.4 percent for electricity and 24.1 percent for number 2 fuel oil.

SELECTED GAS INDUSTRY HIGHLIGHTS OF



GAS FACTS

TABLE 1

Comparison of Gas Utility Industry Customers, Sales, and Revenues By Class of Service, 1981 and 1980

(SALES QUANTITIES IN BILLIONS OF BTU, REVENUES IN THOUSANDS OF DOLLARS)

	1980	1981	PERCENTAGE CHANGE
CUSTOMERS—TOTAL*	47,165,300	47,844,100	+ 1.4
RESIDENTIAL	43,434,500	44,053,600	+ 1.4
COMMERCIAL	3,495,200	3,554,500	+ 1.7
INDUSTRIAL	187,700	187,900	+ 0.1
OTHER	47,900	48,100	+ 0.4
SALES—TOTAL	15,419,400	15,379,900	- 0.3
RESIDENTIAL	4,818,900	4,600,600	- 4.5
COMMERCIAL	2,444,100	2,360,400	- 3.4
INDUSTRIAL	7,954,900	8,220,100	+ 3.3
OTHER	201,500	198,800	- 1.3
REVENUES—TOTAL	48,312,416	56,339,876	+ 16.6
RESIDENTIAL	17,408,147	19,217,630	+ 10.4
COMMERCIAL	8,159,366	9,231,103	+ 13.1
INDUSTRIAL	22,212,947	27,246,220	+ 22.7
OTHER	531,956	644,923	+ 21.2

*YEARLY AVERAGES

SECTION II ENERGY RESERVES

Prior to 1980, data on reserves of oil, natural gas and gas liquids were taken from "Reserves of Crude Oil, Natural Gas Liquids, and Natural Gas in the United States and Canada", an annual report published jointly by A.G.A., the American Petroleum Institute (API) and the Canadian Petroleum Association (CPA). The publication of this report was discontinued after the year-end 1979 report was released in June, 1980. Since 1977 however, the Energy Information Administration (EIA) within the Department of Energy has published an annual reserves report. Data listed below and in several of the tables in this section were taken from the EIA series. For years prior to 1980 A.G.A./API/CPA data is also listed for natural gas reserves.

Reserves as of December 31

	1981	% Change 81/80
Natural Gas		
(Billions of cubic feet)		
Total	201,730	+ 1.4
% Non-Associated, estimated	70.6	+ 1.0
% Associated-Dissolved, estimated	29.4	- 2.3
Underground Storage*	5,730	+ 4.5
Gross Additions	21,446	+28.2
Production	18,737	+ 0.2
Natural Gas Liquids		
(Millions of barrels)		
Total	7,068	+ 5.1
Gross Additions	1,081	+28.1
Production	741	+ 1.4
Crude Oil		
(Millions of barrels)		
Total	29,426	- 1.3
New Additions	2,570	-13.5
Production	2,949	- 0.9

*Not included in Total Reserves. Data taken from "The Underground Storage of Gas in the United States and Canada".

GAS FACTS

TABLE 2
SUMMARY OF ANNUAL ESTIMATES OF PROVED RESERVES OF NATURAL GAS IN THE UNITED STATES, 1955-1979^a
(Millions of cubic feet)

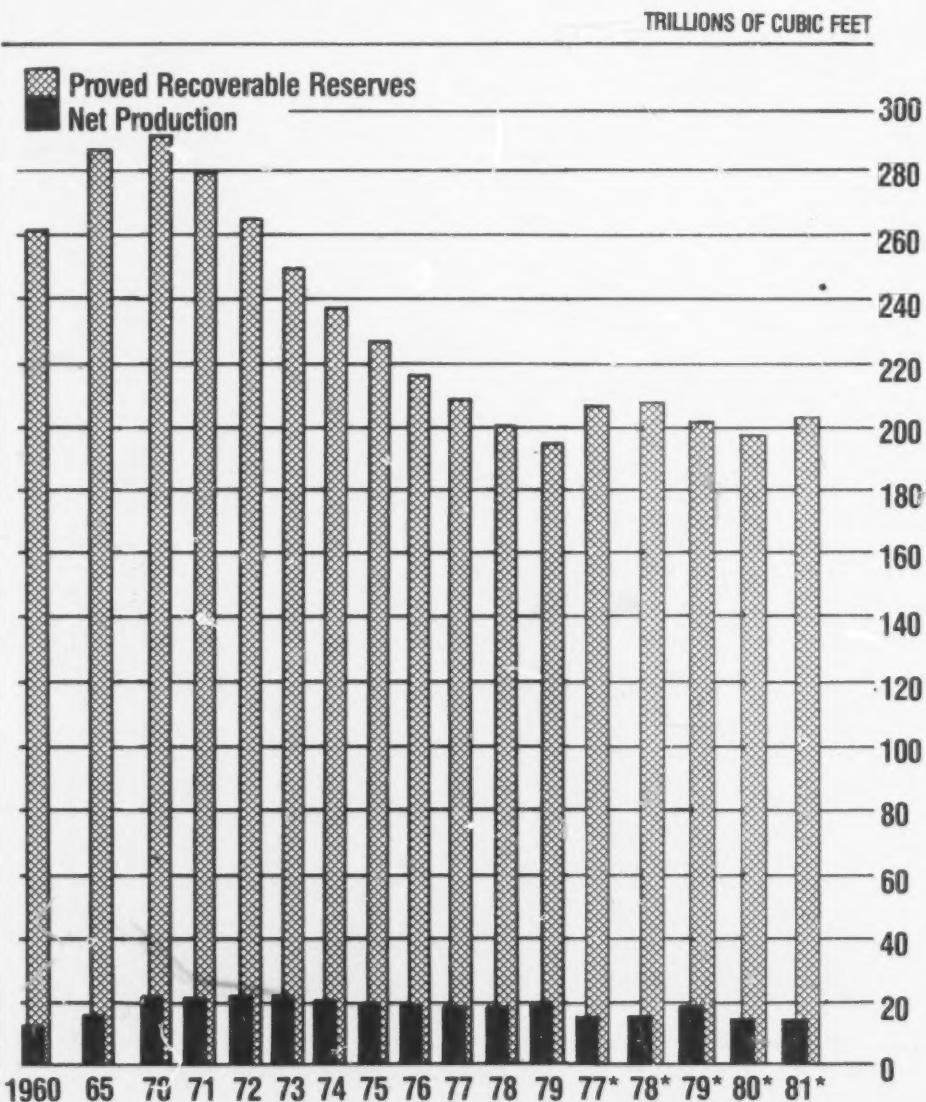
Year	Changes in Reserves during year										Estimated Proved Reserves as of End of Year	Change over Previous Year
	Extensions	Revisions	New Field Discoveries	Discoveries of New Fields and New Pools in Old Fields	New Reservoir Discoveries	Total of Discoveries, Revisions and Extensions	Net Change in Underground Storage	Preliminary Net Production during Year ^a				
1955	—	—	—	5,688,009	—	21,897,616	87,164	10,063,167	222,482,544	11,921,613		
1956	—	—	—	5,605,864	—	24,716,115	133,241	10,848,685	236,483,215	14,000,671		
1957	—	—	—	8,950,119	—	20,008,051	178,761	11,439,890	245,230,137	8,746,922		
1958	—	—	—	5,590,624	—	18,896,724	57,582	11,422,651	252,761,792	7,531,655		
1959	—	—	—	5,769,245	—	20,621,249	160,453	12,373,036	261,170,431	8,408,639		
1960	—	—	—	6,600,963	—	13,893,978	281,273	13,019,356	262,326,326	1,155,895		
1961	—	—	—	6,907,729	—	17,116,421	159,544	13,378,649	266,273,642	3,947,316		
1962	—	—	—	6,299,164	—	19,483,958	159,231	13,637,973	272,278,858	6,005,216		
1963	—	—	—	5,577,934	—	18,164,667	253,733	14,546,025	276,151,233	3,872,375		
1964	—	—	—	6,909,301	—	20,252,139	195,110	15,347,028	281,251,454	5,100,221		
1965	—	—	—	6,543,709	—	21,319,279	150,483	16,252,293	286,468,923	5,217,469		
1966	9,224,745	4,937,962	2,947,329	—	3,110,396	20,220,432	134,523	17,491,073	289,332,805	2,863,882		
1967	9,538,584	6,570,578	3,170,520	—	2,524,651	21,804,333	151,403	18,380,838	292,907,703	3,574,898		
1968	7,758,821	3,016,146	1,376,429	—	1,545,612	13,697,008	118,569	19,373,428	287,349,852	(5,557,851)		
1969	5,800,489	(1,238,261)	1,769,557	—	2,043,219	8,375,004	107,169	20,723,190	275,108,835	(12,241,017)		
1970	6,158,168	(99,721)	27,770,223 ^b	—	3,367,689	37,196,359	402,018	21,960,804	290,746,408	15,637,573		
1971	6,374,706	(1,227,400)	1,317,574	—	3,360,541	9,825,421	310,201	22,076,512	278,805,618	(11,940,790)		
1972	6,153,683	(1,077,791)	1,462,539	—	3,096,132	9,634,563	156,563	22,511,898	266,084,846	(12,720,772)		
1973	6,177,286	(3,474,756)	2,152,151	—	1,970,368	6,825,049	(354,282)	22,605,406	249,950,207	(16,134,639)		
1974	5,847,251	(1,333,285)	2,013,745	—	2,151,473	8,679,184	(178,424)	21,318,470	237,132,497	(12,817,410)		
1975	6,027,433	383,449	2,423,382	—	1,649,424	10,483,688	302,561	19,718,570	228,200,176	(8,932,321)		
1976	5,337,707	(1,197,119)	1,421,013	—	1,993,867	7,555,468	(187,550)	19,542,020	216,026,074	(12,174,102)		
1977	6,601,225	983,551	2,114,505	—	2,152,639	11,851,924	446,930	19,447,050	208,877,878	(7,148,196)		
1978	6,733,441	1,719,938	1,719,938	—	2,014,329	10,586,144	148,733	19,311,048	200,301,707	(8,576,171)		
1979	7,113,113	2,907,551	2,575,779	—	1,689,504	14,285,947	239,323	19,910,353	194,916,624	(5,385,083)		

a. Volumes are calculated at a pressure base of 14.73 psi, absolute, and at a standard temperature of 60°F.
b. Includes the estimates of proved reserves in the Prudhoe Bay Permo-triassic reservoir discovered in 1968 and not previously included.
c. "Preliminary Net Production" equals estimated gross withdrawals less (1) gas reinjected into producing reservoirs for cycling and pressure maintenance, and (2) natural gas liquids. "Preliminary Net Production" differs from U.S. Bureau of Mines "Marketed Production" in that (1) the sources from which they are derived are different, and (2) "Marketed Production" includes natural gas liquids.
() : Denotes negative volume.
Source: A.G.A., American Petroleum Institute and Canadian Petroleum Association. *Reserves of Crude Oil, Natural Gas Liquids and Natural Gas in the United States and Canada as of December 31, 1979*.
Note: Publication of the above mentioned source ceased with the December 31, 1979 edition. See Table 3 for EIA information covering 1976-1981.

ENERGY RESERVES

CHART 2

PROVED RECOVERABLE RESERVES & NET PRODUCTION OF NATURAL GAS IN THE UNITED STATES



REFERENCE: TABLES 2 & 3 & 4

*DOE data. See explanation on page 5.

GAS FACTS

TABLE 3
SUMMARY OF ANNUAL ESTIMATES OF PROVED RESERVES OF NATURAL GAS IN THE UNITED STATES, 1976-1981^a
(Billions of Cubic Feet)

Year	Net of Corrections and Adjustments (1)	Changes in Reserves During Year						Proved Reserves ^c 12/31 (9)	Net Change From Prior Year (10)
		Revisions Increases (2)	Revisions Decreases (3)	Extensions to Old Reservoirs (4)	New Reservoir Discoveries in Old Fields (5)	New Field Discoveries (6)	Total Discoveries ^b (7)	Production Dry (8)	
1976	—	—	—	—	—	—	—	213,278 ^e	—
1977	(20) ^d	13,691	15,296	8,129	3,301	3,173	14,603	207,413	(5,865)
1978	2,429	14,969	15,994	9,582	4,579	3,860	18,021	208,033	620
1979	(2,264)	16,410	16,629	8,950	2,566	3,188	14,704	200,997	(7,036)
1980	1,201	16,972	15,923	9,357	2,577	2,539	14,473	199,021	(1,976)
1981	1,627	16,412	13,813	10,491	2,998	3,731	17,220	201,730	2,709

a. Volumes are calculated at a pressure base of 14.73 psi, absolute and at a standard temperature of 60°F.

b. Col. 4 + Col. 5 + Col. 6 = Col. 7.

c. Proved reserves = Prior year Col. 9 + Col. 1 + Col. 2 - Col. 3 + Col. 7 - Col. 8.

d. Consists only of reported corrections.

e. Based on following year data only.

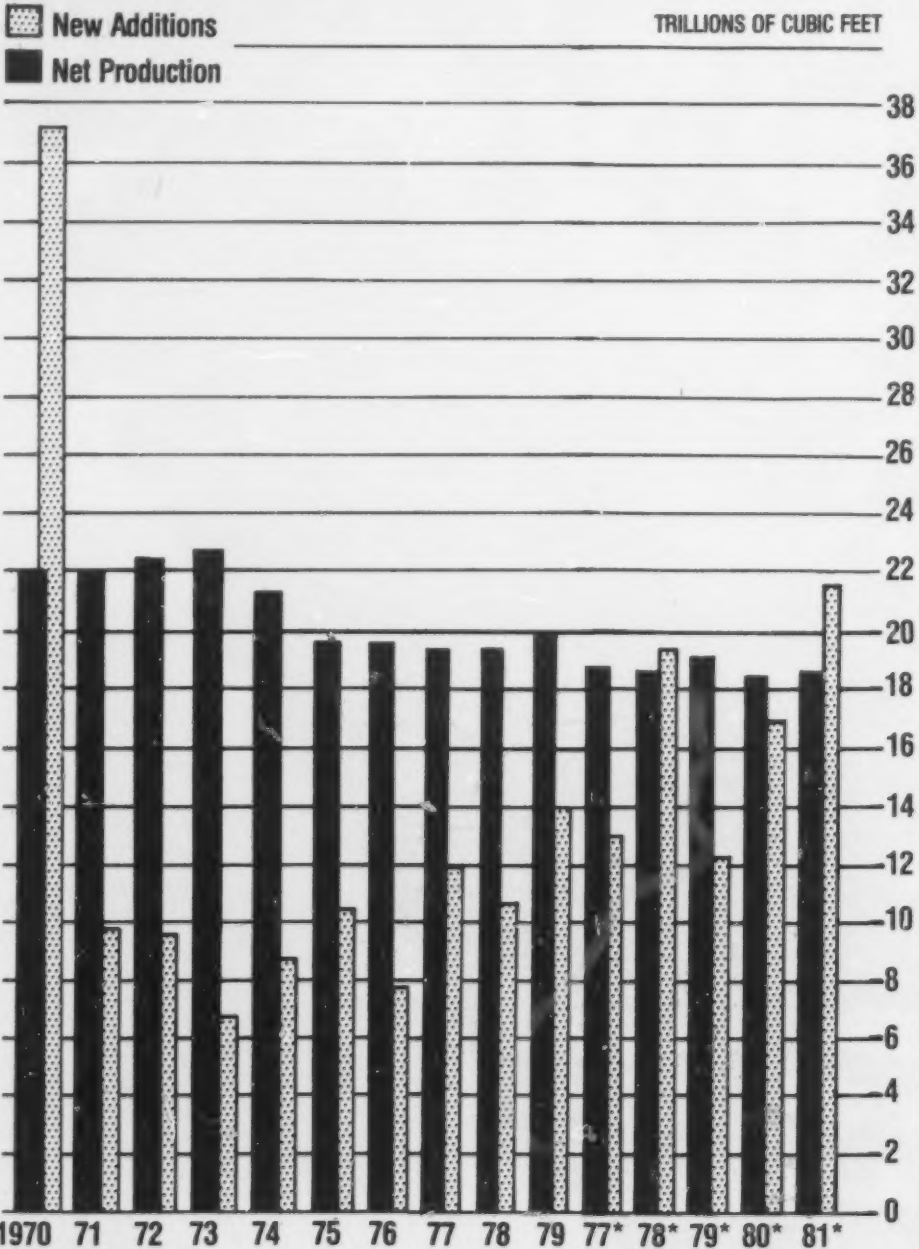
Note: "Old" means discovered in a prior year, "New" means discovered during the report year.

Source: U.S. Department of Energy, Energy Information Administration, "U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves," 1981 Annual Report.

ENERGY RESERVES

CHART 3

NET PRODUCTION AND NEW ADDITIONS TO GAS RESERVES



REFERENCE: TABLE 2 & 3

*DDE data. See explanation on page 5.

GAS FACTS

TABLE 4
CHANGES IN ESTIMATED PROVED RESERVES OF NATURAL GAS, IN THE
UNITED STATES BY STATE, DURING 1981^a

(Billions of Cubic Feet)

State and Subdivision	Published Proved Reserves 12/31/80	Changes in Reserves During 1981		
		Net of Corrections & Adjustments	Revision Increases	Revision Decreases
(1) Total United States	199,021	1,627	16,412	13,813
(2) Alabama	636	42	119	89
(3) Alaska	33,382	(213)	154	61
(4) Arkansas	1,774	39	61	76
(5) California	5,414	76	171	309
(6) Coastal Region Onshore	299	23	32	33
(7) Los Angeles Basin Onshore	193	(13)	10	15
(8) San Joaquin Basin Onshore	4,344	66	110	253
(9) State & Federal Offshore	578	0	19	8
(10) Colorado	2,922	65	131	282
(11) Florida	84	0	12	0
(12) Kansas	9,508	389	539	194
(13) Kentucky	508	(20)	91	8
(14) Louisiana	47,325	295	6,469	4,840
(15) North	3,076	136	310	284
(16) South Onshore	13,026	64	1,519	1,853
(17) South State Offshore	3,519	5	149	282
(18) South Federal Offshore	27,704	90	4,491	2,421
(19) Michigan	1,406 ^c	(191)	87	98
(20) Mississippi	1,769	399	75	161
(21) Montana	1,287 ^c	30	102	83
(22) New Mexico	13,287	866	789	1,012
(23) East	3,530	196	346	392
(24) West	9,757	670	443	620
(25) New York	208	50	2	1
(26) North Dakota	537	31	36	85
(27) Ohio	1,699 ^c	(676)	12	44
(28) Oklahoma	13,138	1,017	1,262	1,371
(29) Pennsylvania	951	226	70	95
(30) Texas	50,287	864	4,928	4,264
(31) District 1	829	281	103	118
(32) District 2 Onshore	2,502	320	317	409
(33) District 3 Onshore	5,531	(6)	517	502
(34) District 4 Onshore	8,130	(139)	808	761
(35) District 5	1,147	68	164	192
(36) District 6	4,230	(247)	330	365
(37) District 7B	745 ^c	155	31	29
(38) District 7C	2,378	115	301	190
(39) District 8	9,144	(38)	619	513
(40) District 8A	1,057	(39)	212	69
(41) District 9	649	147	168	37
(42) District 10	6,435	117	485	466
(43) State Offshore	1,148	(2)	214	58
(44) Federal Offshore	6,362	132	659	555
(45) Utah	1,201	44	414	84
(46) West Virginia	2,422 ^c	(617)	131	108
(47) Wyoming	9,100	(1,083)	749	541
(48) Miscellaneous ^b	176	(6)	8	7

a. Volumes are calculated at a pressure base 14.73 psi, absolute, and at a standard temperature of 60°F.

b. Includes Arizona, Illinois, Maryland, Nebraska, Oregon, South Dakota, Tennessee, Virginia, and Washington.

c. Indicates that the estimated associated with a sampling error (95 percent confidence interval) which exceeds 20 percent of the estimated value.

Note: "Old" means discovered in a prior year. "New" means discovered during the report year.

Source: U.S. Department of Energy, Energy Information Administration, "U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves," 1981 Annual Report.

ENERGY RESERVES

TABLE 4 (Continued)
CHANGES IN ESTIMATED PROVED RESERVES OF NATURAL GAS, IN THE
UNITED STATES BY STATE, DURING 1981*

(Billions of Cubic Feet)

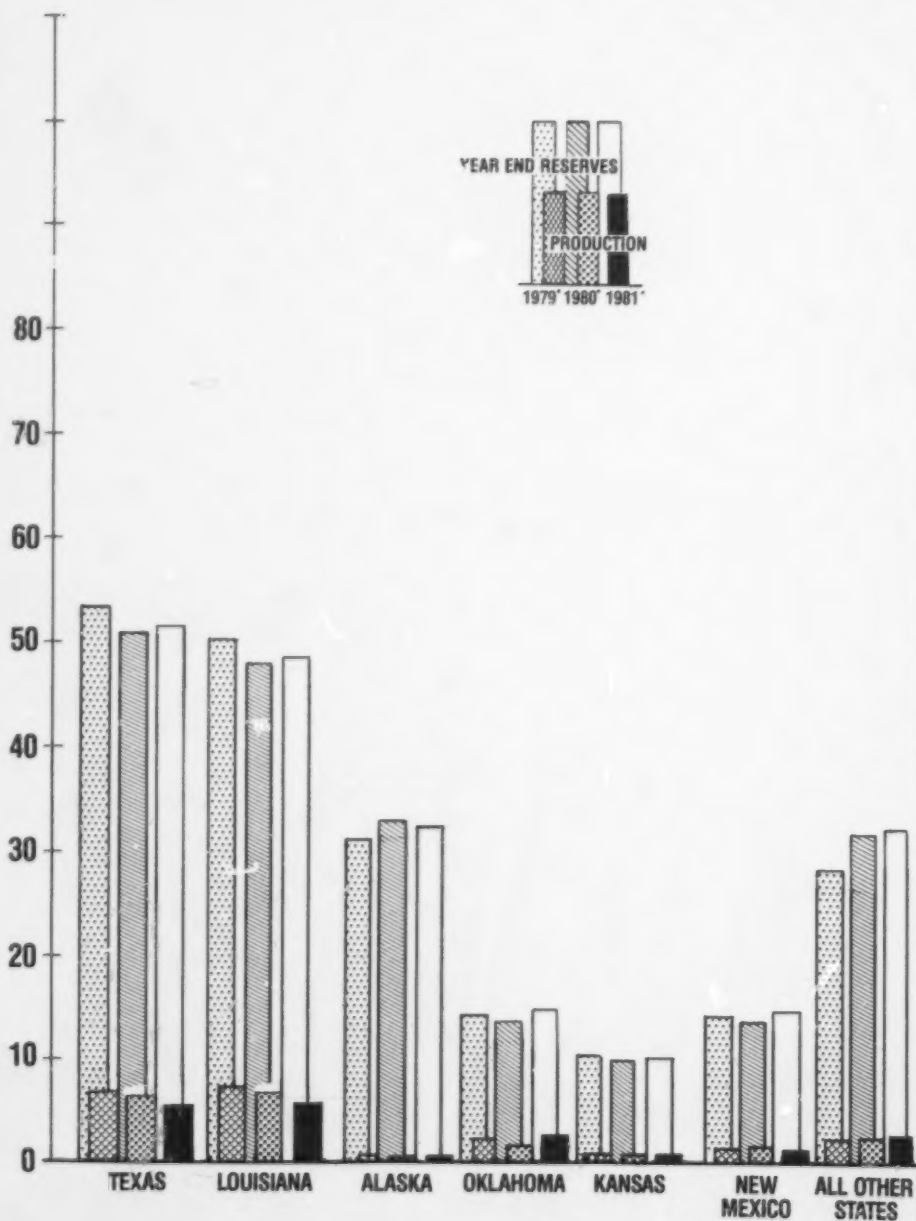
Changes in Reserves During 1981					
Extensions	New Field Discoveries	New Reservoir Discoveries in Old Fields	Production Dry	Proved Reserves 12/31/81	
10,491	3,731	2,998	18,737	201,730	(1)
12	5	8	85	648	(2)
6	0	4	235	33,037	(3)
106	17	1	121	1,801	(4)
458	155	37	385	5,617	(5)
10	3	3	31	306	(6)
1	0	0	22	154	(7)
131	41	34	310	4,163	(8)
316	111	0	22	994	(9)
251	16	23	165	2,961	(10)
0	0	0	27	69	(11)
107	5	99	593	9,860	(12)
11	0	0	52	530	(13)
1,955	1,339	1,526	6,692	47,377	(14)
354	59	21	402	3,270	(15)
551	614	397	1,673	12,645	(16)
27	99	92	407	3,202	(17)
1,023	567	1,016	4,210	28,260	(18)
35	18	0	139	1,118	(19)
73	45	31	196	2,035	(20)
60	6	5	86 ^c	1,321 ^c	(21)
855	118	53	1,086	13,870	(22)
364	72	13	531	3,598	(23)
491	46	40	555	10,272	(24)
13	3	0	11 ^c	264 ^c	(25)
69	34	3	44	581	(26)
55	2	2	85	965	(27)
1,864	412	77	1,700	14,699	(28)
154	48	4	94 ^c	1,264 ^c	(29)
2,655	1,179	1,107	6,287	50,469	(30)
29	24	13	139 ^c	1,022 ^c	(31)
141	113	49	404	2,629	(32)
339	122	87	796	5,292	(33)
426	233	360	1,053	8,004	(34)
171	18	13	139	1,250	(35)
441	65	88	365	4,177	(36)
14	6	0	118	804	(37)
92	35	6	234	2,503	(38)
254	73	15	1,008	8,546	(39)
11	1	0	102	1,071	(40)
102	13	30	119	953	(41)
270	174	22	808	6,229	(42)
19	72	0	282	1,111	(43)
346	230	424	720	6,878	(44)
413	3	0	79	1,912	(45)
125	18	0	137	1,834	(46)
1,202	287	16	423	9,307	(47)
12	21	2	15	191	(48)

GAS FACTS

CHART 4

NATURAL GAS STATE RESERVES AND PRODUCTION FOR 1979, 1980 AND 1981

TRILLIONS OF CUBIC FEET



REFERENCE: TABLE 4

* DOE data. See explanation on page 5.

ENERGY RESERVES

TABLE 5
SUMMARY OF ANNUAL ESTIMATES OF PROVED RESERVES OF NATURAL GAS LIQUIDS IN THE UNITED STATES, 1978-1981
(Millions of barrels)^a

Year	Net of Corrections and Adjustments (1)	Revision Increases (2)	Revision Decreases (3)	Extensions to Old Reservoirs (4)	New Reservoir Discoveries in Old Fields (5)	New Field Discoveries (6)	Total Discoveries ^b (7)	Production (8)	Proved Reserves ^c 12/31 (9)	Net Change From Prior Year (10)
1978	—	—	—	—	—	—	—	—	6,772 ^e	—
1979	64 ^d	677	726	364	97	94	555	727	6,615	(157)
1980	153	743	639	418	79	90	587	731	6,728	113
1981	231	729	643	542	91	131	764	741	7,068	340

a. Barrel = 42 U.S. gallons.

b. Col. 4 + Col. 5 + Col. 6 = Col. 7.

c. Proved Reserves = Prior year Col. 9 + Col. 1 + Col. 2 - Col. 3 + Col. 7 - Col. 8.

d. Consists only of reported corrections.

e. Based on following year data only.

Note: "Old" means discovered in a prior year. "New" means discovered during the report year.

Source: U.S. Department of Energy, Energy Information Administration, "U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves", 1981 Annual Report.

GAS FACTS

TABLE 6
CHANGES IN ESTIMATED PROVED RESERVES OF NATURAL GAS LIQUIDS,
IN THE UNITED STATES BY STATE, DURING 1981

(Millions of barrels)^a

State and Subdivision	Published Proved Reserves 12/31/80	Changes in Reserves during 1981		
		Net of Corrections and Adjustments	Revision Increases	Revision Decreases
(1) Total United States	6,728	231	729	643
(2) Alabama	226	(9)	18	28
(3) Alaska	11	(2)	1	0
(4) Arkansas	16	0	1	1
(5) California	120	(34)	4	5
(6) Coastal Region Onshore	23	(8)	1	1
(7) Los Angeles Basin Onshore	15	(7)	0	1
(8) San Joaquin Basin Onshore	81	(20)	1	3
(9) State and Federal Offshore	1	1	2	0
(10) Colorado	194	12	10	20
(11) Kansas	389	21	23	8
(12) Kentucky	25	(3)	4	0
(13) Louisiana	1,344	17	179	174
(14) North	95	1	14	10
(15) South Onshore	539	21	67	79
(16) South State Offshore	51	26	6	8
(17) South Federal Offshore	659	(31)	92	77
(18) Michigan	112	0	9	10
(19) Mississippi	20	2	2	3
(20) Montana	16	(4)	1	1
(21) New Mexico	542	30	44	54
(22) East	209	14	22	27
(23) West	333	16	22	27
(24) New York	0	0	0	0
(25) North Dakota	60	11	4	13
(26) Ohio	0	0	0	0
(27) Oklahoma	605	(2)	61	64
(28) Pennsylvania	0	0	0	0
(29) Texas	2,453	229	284	229
(30) District 1	25	5	2	3
(31) District 2 Onshore	64	27	12	14
(32) District 3 Onshore	216	16	27	25
(33) District 4 Onshore	251	5	30	27
(34) District 5	45	6	7	11
(35) District 6	322	(16)	23	35
(36) District 7B	85	29	4	4
(37) District 7C	134	53	23	14
(38) District 8	498	80	38	36
(39) District 8A	290	29	66	22
(40) District 9	92	(20)	15	4
(41) District 10	369	14	29	28
(42) State Offshore	12	(1)	3	1
(43) Federal Offshore	50	2	5	5
(44) Utah	127	2	34	4
(45) West Virginia	97	(14)	6	5
(46) Wyoming	341	(21)	41	24
(47) Miscellaneous ^b	30	(4)	3	0

a. Barrel = 42 U.S. gallons.

b. Includes Arizona, Florida, Illinois, Nebraska, and Tennessee.

Note: "Old" means discovered in a prior year. "New" means discovered during the report year.

Source: U.S. Department of Energy, Energy Information Administration, "U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves," 1981 Annual Report.

ENERGY RESERVES

TABLE 6 (Continued)
CHANGES IN ESTIMATED PROVED RESERVES OF NATURAL GAS LIQUIDS,
IN THE UNITED STATES BY STATE, DURING 1981

(Millions of barrels)^a

Changes in Reserves during 1981						
Extensions	New Field Discoveries	New Reservoir Discoveries in Old Fields	Production	Proved Reserves 12/31/81	Plant Liquids Production	
542	131	91	741	7,068	580	(1)
0	0	0	15	192	3	(2)
0	0	0	0	10	0	(3)
1	0	0	1	16	1	(4)
2	1	0	6	82	6	(5)
0	0	0	1	14	1	(6)
0	0	0	1	6	1	(7)
2	0	0	4	57	4	(8)
0	1	0	0	5	0	(9)
17	1	2	12	204	11	(10)
4	0	4	24	409	24	(11)
1	0	0	2	25	2	(12)
57	41	42	179	1,327	105	(13)
10	1	0	12	99	8	(14)
23	27	17	71	544	38	(15)
0	2	2	9	70	6	(16)
24	11	23	87	614	53	(17)
3	1	0	13	102	12	(18)
1	0	0	4	18	1	(19)
0	0	0	1	11	1	(20)
41	5	2	50	560	45	(21)
23	4	1	32	214	29	(22)
18	1	1	18	346	16	(23)
0	0	0	0	0	0	(24)
7	4	0	5	68	4	(25)
0	0	0	0	0	0	(26)
84	18	3	74	631	65	(27)
0	0	0	0	0	0	(28)
141	44	38	314	2,646	270	(29)
1	0	0	4	26	3	(30)
6	4	2	13	88	10	(31)
21	6	5	36	230	27	(32)
17	7	10	33	260	24	(33)
7	1	0	6	49	5	(34)
32	5	5	28	308	23	(35)
2	1	0	15	102	15	(36)
6	2	0	18	186	16	(37)
16	4	1	64	537	59	(38)
4	0	0	32	335	32	(39)
10	1	3	11	86	10	(40)
16	10	1	47	364	45	(41)
0	2	0	2	13	0	(42)
3	1	11	5	62	1	(43)
123	0	0	5	277	4	(44)
6	1	0	6	85	6	(45)
54	15	0	22	384	12	(46)
0	0	0	8	21	8	(47)

GAS FACTS

TABLE 7
TOTAL ESTIMATED REMAINING IDENTIFIED RESERVES
OF COAL AND LIGNITE
BY STATE, AS OF JANUARY 1, 1976^a

(Billions of short tons)

State	Total Coal and Lignite	Coal			
		Anthracite and Semianthracite	Subbituminous	Bituminous	Lignite
United States	438.3	7.4	168.4	228.9	33.6
Alabama	3.1			2.0	1.1
Alaska	6.2		5.4	0.7	b
Arizona	0.3			0.3	
Arkansas	0.4	0.1		0.3	b
Colorado	16.3	b	4.1	9.1	3.0
Georgia	b			b	
Idaho	b			b	
Illinois	68.0			68.0	
Indiana	10.7			10.7	
Iowa	2.2			2.2	
Kansas	1.0			1.0	
Kentucky	26.0			26.0	
Maryland	1.0			1.0	
Michigan	0.1			0.1	
Missouri	5.0			5.0	
Montana	120.6		103.4	1.4	15.8
New Mexico	4.6	b	2.7	1.9	
North Carolina	b			b	
North Dakota	10.1				10.1
Ohio	19.2			19.2	
Oklahoma	1.6			1.6	
Oregon	b		b		
Pennsylvania	30.8	7.1		23.7	
South Dakota	0.4				0.4
Tennessee	1.0			1.0	
Texas	3.2				3.2
Utah	6.6		b	6.6	
Virginia	4.3	0.1		4.2	
Washington	1.6		1.3	0.3	b
West Virginia	38.6			38.6	
Wyoming	55.4		51.4	4.0	

a. Figures are for resources in the ground, about half of which may be considered recoverable. Includes beds of bituminous coal and anthracite 28 in. or more thick and beds of subbituminous coal and lignite 5 ft. or more thick.

b. Less than 50 million short tons.

Source: U.S. Department of the Interior, Bureau of Mines, *The Demonstrated Reserve Base of Coals in the United States*, January 1, 1976.

ENERGY RESERVES

TABLE 8
SUMMARY OF ANNUAL ESTIMATES OF PROVED RESERVES OF CRUDE OIL IN THE UNITED STATES, 1976-1981
(Millions of barrels)^a

Year	Net of Corrections and Adjustments (1)	Revision Increases (2)	Revision Decreases (3)	Extensions to Old Reservoirs (4)	New Reservoir Discoveries in Old Fields (5)	New Field Discoveries (6)	Total Discoveries ^b (7)	Production (8)	Proved Reserves ^c 12/31 (9)	Net Change From Prior Year (10)
1976	—	—	—	—	—	—	—	—	33,502 ^e	—
1977	(40) ^d	1,503	1,117	496	130	168	794	2,862	31,780	(1,722)
1978	366	2,799	1,409	444	116	267	827	3,008	31,355	(425)
1979	337	2,438	2,001	424	104	108	636	2,955	29,810	(1,545)
1980	219	2,883	994	572	147	143	862	2,975	29,805	(5)
1981	138	2,151	880	750	157	254	1,161	2,949	29,426	(379)

a. Barrel = 42 U.S. gallons.

b. Col. 4 + Col. 5 + Col. 6 = Col. 7.

c. Proved Reserves = Prior year Col. 9 + Col. 1 + Col. 2 - Col. 3 + Col. 7 - Col. 8.

d. Consists only of reported corrections.

e. Based on following year data only.

Note: "Old" means discovered in a prior year. "New" means discovered during the report year.

Source: U.S. Department of Energy, Energy Information Administration, "U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves", 1981 Annual Report.

GAS FACTS

TABLE 9
CHANGES IN ESTIMATED PROVED RESERVES OF CRUDE OIL,
IN THE UNITED STATES BY STATE, DURING 1981

(Millions of barrels)^a

State and Subdivision	Published Proved Reserves 12/31/80	Changes in Reserves during 1981		
		Net of Corrections and Adjustments	Revision Increases	Revision Decreases
(1) Total United States	29,805	138	2,151	880
(2) Alabama	54	6	7	5
(3) Alaska	8,751	(138)	264	2
(4) Arkansas	107	10	12	2
(5) California	5,470	(21)	227	126
(6) Coastal Region Onshore	652	8	17	23
(7) Los Angeles Basin Onshore	454	6	44	48
(8) San Joaquin Basin Onshore	3,360	(64)	157	28
(9) State and Federal Offshore	1,004	29	9	27
(10) Colorado	183 ^c	(25)	9	5
(11) Florida	134	0	11	1
(12) Illinois	113	18	15	5
(13) Indiana	23	3	1	0
(14) Kansas	310	56	51	21
(15) Kentucky	35 ^c	(3)	1	1
(16) Louisiana	2,751	47	527	227
(17) North	248	53	44	20
(18) South Onshore	682	(5)	77	45
(19) South State Offshore	179	4	10	20
(20) South Federal Offshore	1,642	(5)	396	142
(21) Michigan	205 ^c	25	42	14
(22) Mississippi	202	16	21	10
(23) Montana	179	0	28	15
(24) Nebraska	46 ^c	(8)	8	2
(25) New Mexico	547	23	54	20
(26) East	518	22	47	14
(27) West	29 ^c	1	7	6
(28) North Dakota	214	6	22	20
(29) Ohio	116 ^c	(15)	5	7
(30) Oklahoma	930	62	88	72
(31) Pennsylvania	35	(2)	0	3
(32) Texas	8,206	168	635	286
(33) District 1	150 ^c	(16)	11	11
(34) District 2 Onshore	252	5	13	5
(35) District 3 Onshore	581	29	53	63
(36) District 4 Onshore	96	4	18	9
(37) District 5	52	6	1	4
(38) District 6	1,115	(4)	34	16
(39) District 7B	196	56	19	7
(40) District 7C	207	15	22	11
(41) District 8	2,597	64	99	78
(42) District 8A	2,504	(16)	317	48
(43) District 9	218	9	30	12
(44) District 10	89	16	13	5
(45) State Offshore	6	1	1	0
(46) Federal Offshore	143	(1)	4	17
(47) Utah	198	1	14	6
(48) West Virginia	30	0	2	2
(49) Wyoming	928	(85)	98	27
(50) Miscellaneous ^b	38 ^c	(6)	9	1

a. Barrel = 42 U.S. gallons.

b. Includes Arizona, Missouri, Nevada, New York, South Dakota, and Tennessee.

c. Indicates that the estimate is associated with a sampling error (95 percent confidence interval) which exceeds 20 percent of the estimated value.

ENERGY RESERVES

TABLE 9 (Continued)
CHANGES IN ESTIMATED PROVED RESERVES OF CRUDE OIL,
IN THE UNITED STATES BY STATE, DURING 1981

(Millions of barrels)^a

Changes in Reserves during 1981					
Extensions	New Field Discoveries	New Reservoir Discoveries in Old Fields	Production	Proved Reserves 12/31/81	
750	254	157	2,949	29,426	(1)
0	0	2	9	55	(2)
0	0	0	592	8,283	(3)
3	0	0	17	113	(4)
180	91	3	383	5,441	(5)
8	1	2	44	621	(6)
6	0	0	50	412	(7)
29	2	1	232	3,225	(8)
137	88	0	57	1,183	(9)
5	7	1	28	147	(10)
0	0	0	35	109	(11)
5	1	1	19	129	(12)
0	0	0	4	23	(13)
29	6	5	65	371	(14)
1	0	0	4	29	(15)
117	53	99	382	2,985	(16)
15	9	4	36 ^c	317 ^c	(17)
22	11	7	107	642	(18)
1	5	3	20	162	(19)
79	28	85	219	1,864	(20)
11	5	0	34	240 ^c	(21)
3	7	0	30	209	(22)
14	10	1	31	186	(23)
2	1	0	6 ^c	41	(24)
14	2	1	66	555	(25)
8	2	1	62	522	(26)
6	0	0	4 ^c	33 ^c	(27)
29	13	2	43	223	(28)
16	0	8	11 ^c	112 ^c	(29)
60	14	4	136	950	(30)
4	0	0	2	32	(31)
218	24	29	901	8,093	(32)
7	4	1	19	127	(33)
1	0	1	38	229	(34)
51	3	6	108	552	(35)
6	1	2	21	97	(36)
2	0	0	8	49	(37)
7	0	1	97	1,040	(38)
21	1	1	33	254	(39)
23	2	1	29	230	(40)
52	3	1	235	2,503	(41)
26	5	2	252	2,538	(42)
10	2	2	34	225	(43)
10	1	0	17	107	(44)
1	2	0	1	10	(45)
1	0	11	9	132	(46)
7	2	0	26	190	(47)
2	0	0	2	30	(48)
30	14	1	119	840	(49)
0	4	0	4 ^c	40	(50)

Note: "Old" means discovered in a prior year. "New" means discovered during the report year.

Source: U.S. Department of Energy, Energy Information Administration, "U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves," 1981 Annual Report.

GAS FACTS

TABLE 10
SUMMARY OF ANNUAL ESTIMATES OF RESERVES OF NATURAL GAS IN CANADA, 1964-1981^a
(Millions of cubic feet)

	Changes Due To							Reserves Remaining at End of Year ^b
	Revisions	Revisions and Extensions	Extensions	Discoveries	Net Change in Underground Storage	Net Production	Reserves Remaining at End of Year	
MARKETABLE GAS^c								
1964	32,992,252	—	—	—	—	—	39,319,544	45,572,431
1965	39,319,544	—	—	—	—	—	40,354,527	46,434,950
1966	40,354,527	2,158,536	1,532,317	512,086	17,918	1,125,289	43,450,095	49,269,076
1967	43,450,095	1,572,424	1,266,002	603,459	4,120	1,216,049	45,662,051	50,945,169
1968	45,662,051	230,116	2,867,357	282,913	(1,255)	1,394,721	47,666,461	54,185,935
1969	47,666,461	2,043,815	2,690,603	1,104,452	2,197	1,556,533	51,950,995	57,467,963
1970	51,950,995	493,804	2,516,126	193,682	20,205	1,799,184	53,375,628	60,289,373
1971	53,375,628	983,556	2,280,205	775,500	65	1,953,104	55,461,850	61,964,760
1972	55,461,850	(2,064,125)	1,243,897	487,538	(5,580)	2,247,798	52,935,782	60,546,769
1973	52,935,782	(167,054)	1,257,243	686,714	70,097	2,325,350	51,457,432	60,801,088
1974	52,457,432	2,953,557	3,487,099	193,056	10,428	2,393,486	56,708,086	64,459,133
1975	56,708,086	(177,606)	2,412,582	362,895	29,869	2,361,110	56,974,715	71,466,773
1976	56,974,716	(367,880)	3,587,990	639,345	(11,053)	2,541,176	58,281,942	76,359,832
1977	58,281,942	1,432,871	1,852,325	351,007	46,730	2,492,849	59,472,026	78,031,771
ESTABLISHED RESERVES								
1977	76,835,973	d	d	d	46,709	2,492,850	79,180,390	—
1978	79,180,390	2,026,962	2,534,342	1,018,734	3,443	2,340,406	82,423,467	—
1979	82,423,467	3,012,475	2,062,527	3,347,747	10,613	2,263,030	88,593,799	—
1980	88,594,374	62,043	1,468,320	900,050	(33,222)	2,486,016	88,445,549	—
1981	88,461,174	2,234,086	2,062,408	624,303	9,372	2,405,800	90,985,543	—

a. Volumes are calculated at a pressure base of 14.65 psia and at a standard temperature of 60°F.

b. Includes proved reserves.

c. For definition refer to Glossary.

d. Not available.

(-) Denotes negative volume.

Source: Canadian Petroleum Association, "Report of the Reserves Committee," News Release, April 6, 1982.

ENERGY RESERVES

TABLE 11
ESTIMATED ESTABLISHED REMAINING MARKETABLE RESERVES OF NATURAL GAS IN CANADA, BY PROVINCE, 1981*

(Millions of cubic feet)

Province	Remaining Reserves December 31, 1980	Change During Year	Remaining Reserves At December 31, 1981				Under ground Storage
			Total	Non-associated	Associated	Dissolved	
Canada	88,461,174	2,524,369	90,985,543	81,006,137	6,882,421	2,860,343	236,642
Total West, Canada	88,166,488	2,508,394	90,674,882	80,882,632	6,881,320	2,860,343	50,587
Alberta	58,981,191	2,189,924	61,171,115	52,077,329	6,360,996	2,687,954	44,836
Arctic Islands	13,509,561	—	13,509,561	13,509,561	—	—	—
Br. Columbia	7,408,637	482,303	7,890,940	7,295,214	474,138	121,588	—
Mackenzie Delta	6,536,367	—	6,536,367	6,536,367	—	—	—
Mainland Territories	536,121	(124,996)	411,125	411,125	—	—	—
Saskatchewan	1,194,611	(38,837)	1,155,774	1,053,036	46,186	50,801	5,751
Total East, Canada	794,686	15,975	310,661	123,505	1,101	—	186,055
Ontario	283,113	16,295	299,408	113,353	—	—	186,055
Other E. Canada	11,573	(320)	11,253	10,152	1,101	—	—

*Volumes are calculated at a pressure base of 14.65 psia and at a standard temperature of 60°F.

() : Denotes negative volume.

Source: Same as Table 10.

TABLE 12
CHANGES IN ESTIMATED ESTABLISHED REMAINING MARKETABLE RESERVES OF NATURAL GAS IN CANADA, BY PROVINCE, DURING 1981*

(Millions of cubic feet)

Province	Remaining Reserves December 31, 1980	Changes in Reserves during 1981					Remaining Reserves December 31, 1981
		Revisions	Extensions	Discoveries	Net Change in Under-ground Storage	Net Production	
Canada	88,461,174	2,234,086	2,062,408	624,303	9,372	2,405,800	90,985,543
Total West, Canada	88,166,488	2,211,046	2,062,408	624,267	(5,005)	2,384,322	90,674,882
Alberta	58,981,191	1,818,558	1,908,409	548,972	(5,112)	2,080,903	61,171,115
Arctic Islands	13,509,561	—	—	—	—	—	13,509,561
Br. Columbia	7,408,637	508,467	145,160	75,295	—	246,619	7,890,940
Mackenzie Delta	6,536,367	—	—	—	—	—	6,536,367
Mainland Territories	536,121	(112,500)	—	—	—	12,496	411,125
Saskatchewan	1,194,611	(3,479)	8,839	—	107	44,304	1,155,774
Total East, Canada	294,686	23,040	—	36	14,377	21,478	310,661
Ontario	283,113	23,040	—	36	14,377	21,158	299,408
Other E. Canada	11,573	—	—	—	—	320	11,253

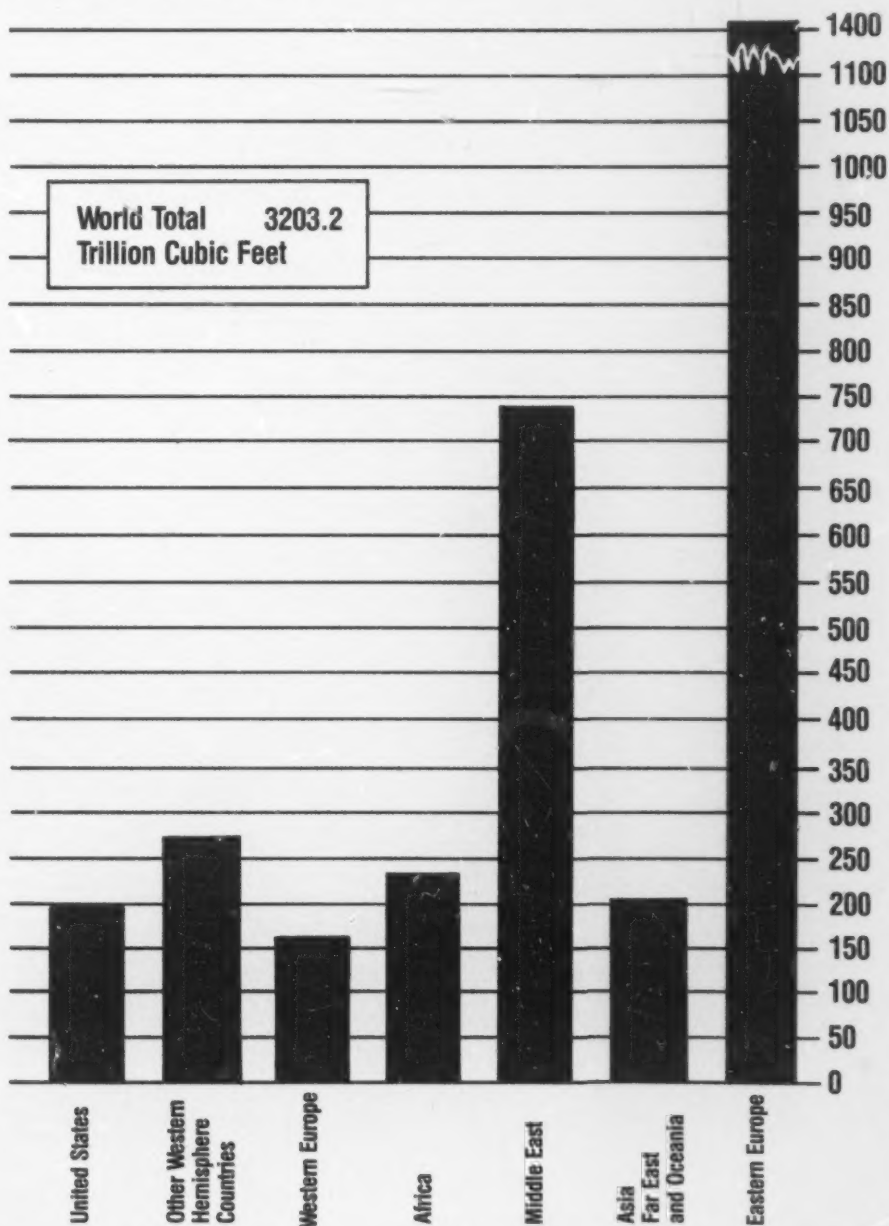
*Volumes are calculated at a pressure base of 14.65 psia and at a standard temperature of 60°F.

() : Denotes negative volume.

Source: Same as Table 10.

WORLD ESTIMATED NATURAL GAS RESERVES, 1981

TRILLIONS OF CUBIC FEET



SOURCE: WORLD OIL, AUGUST 15, 1982

SECTION III NATURAL GAS SUPPLY

	<u>1981</u>	<u>% Change 81/80</u>
Maximum Day Sendout (Trillions of Btu)	78.8	+ 3.8
Production (wet) (Trillions of Btu)	22,197	- 0.8
Net Imports (Millions of cubic feet)	844,548	- 9.8
Producing Gas Wells	189,609	+ 4.2
New Gas Well Completions	17,894	+13.8

GAS FACTS

TABLE 13
GAS UTILITY INDUSTRY, GAS SUPPLY AND DISPOSITION, 1955-1981^a

(Trillions of Btu)

	Amount							
	1955	1960	1965	1970	1975	1979	1980	1981
Supply—Produced and Purchased—Total	7,531.0	10,544.6	13,315.9	18,829.5	16,811.5	17,068.4	17,276.4	17,214.8
Natural	7,531.0	10,544.6	13,315.9	18,661.8	16,490.1	16,520.2	16,935.3	16,935.1
Manufactured	b	b	b	75.6	19.3	13.1	8.8	7.7
Liquefied Petroleum Gas	b	b	b	26.9	24.8	18.0	17.9	17.1
Substitute Natural Gas	b	b	b	1.2	261.3	281.2	198.4	188.9
Liquefied Natural Gas	b	b	b	0.6	8.4	202.6	79.6	31.7
Unclassified	b	b	b	64.0	7.6	33.3	36.4	34.3
Disposition—Total	7,531.0	10,544.6	13,315.9	18,829.5	16,811.5	17,068.4	17,276.4	17,214.8
Used in Production of								
Other Gases ^c	311.0	215.9	126.7	125.4	124.2	65.3	95.0	79.8
Company Use as a Fuel ^d	557.7	757.6	995.7	1,380.1	1,089.3	919.6	1,278.7	1,192.4
Sales to Ultimate Consumers	6,300.8	9,054.6	11,842.0	16,043.5	14,862.9	15,440.3	15,409.4	15,379.9
Other Deliveries (Net)	56.8	54.9	89.6	70.1	83.9	55.6	85.8	46.6
Placed in Storage (Net)	64.4	164.7	67.6	473.6	348.8	291.6	16.9	149.7
Unaccounted For ^e	240.3	296.9	194.3	736.8	302.4	296.0	390.6	366.4

a. Includes Natural Gas only prior to 1970.

b. Not available.

c. Includes Natural Gas used for enriching, reforming and mixing.

d. Includes interdepartmental transfers.

e. Represents difference between supply and disposition, and should not be interpreted as a reliable measure of transmission efficiency.

TABLE 14
GAS UTILITY INDUSTRY, MAXIMUM AND MINIMUM DAY SENDOUT^a
BY SOURCE OF SUPPLY, 1974-1981^b

(Trillions of Btu)

	1974	1975	1976	1977	1978	1979	1980	1981
Maximum Day Sendout—Total	74.1	74.6	78.9	81.8	92.1	83.8	76.1	78.8
Peak Shaving Facilities	1.0	0.9	1.9	3.7	3.4	2.0	1.3	2.1
Underground Storage Withdrawal	29.1	31.4	36.3	37.3	36.3	38.3	38.3	37.2
Regular Production and Purchases	44.0	42.3	40.7	40.8	52.4	43.5	36.5	39.5
Minimum Day Sendout—Total	21.6	19.9	19.3	17.0	16.3	17.8	16.0	17.6
Average Day Sendout—Total	43.8	40.7	40.6	39.3	40.4	42.3	42.2	42.1

a. Represents summation of all companies maximum/minimum day sendout.

b. Excludes sendout of pipeline companies to avoid duplication. Underground storage withdrawals include amounts from fields operated by both distributors and pipelines.

TABLE 15
SUPPLY AND DISPOSITION OF GAS IN THE UNITED STATES, 1955-1980
(Millions of cubic feet)

Year	Disposition of Marketed Production													Delivered to Consumers ^c		
	Gross Production ^a					Markets ¹ Production ^b	Extraction Loss	Lease and Plant Fuel	Net Change in Underground Storage	Pipeline Fuel	Unaccounted For	Nonhydrocarbon Gases	Domestic Dry Production For Sale		Net Imports	Supplemental Supplies
	Gas Wells	Oil Wells	Total	Repressuring	Vented and Flared											
1955	7,841,958	3,877,836	11,719,794	1,540,804	773,639	9,405,351	1,507,671		67,934	245,246	246,933	d	7,337,567	(20,141)	d	7,317,426
1956	8,306,550	4,066,355	12,372,905	1,426,648	864,334	10,081,923	1,420,550		136,470	295,972	212,992	d	8,015,939	(25,583)	d	7,990,356
1957	8,716,835	4,189,834	12,906,669	1,417,263	809,148	10,680,258	1,479,720		191,396	299,235	205,373	d	8,504,534	(3,714)	d	8,500,820
1958	9,154,051	3,992,584	13,146,635	1,482,975	633,412	11,030,248	1,604,104		312,221	312,221	383,597	d	8,747,245	97,078	d	8,844,323
1959	10,101,754	4,127,518	14,229,272	1,612,109	571,048	12,046,115	1,737,402		118,742	349,348	223,312	d	9,617,311	115,577	d	9,732,888
1960	10,853,426	4,234,485	15,087,911	1,753,996	562,877	12,771,038	1,779,671		131,694	347,075	274,231	d	10,238,367	144,314	d	10,382,681
1961	11,195,087	4,265,225	15,460,312	1,682,754	523,533	13,254,025	1,881,208		145,616	377,607	234,808	d	10,614,786	208,113	d	10,822,899
1962	11,702,382	4,336,591	16,038,973	1,736,722	425,629	13,876,622	1,993,128		86,487	382,496	285,726	d	11,128,785	385,720	d	11,514,505
1963	12,606,022	4,367,346	16,973,368	1,843,297	383,408	14,746,663	2,081,339		330,772	423,783	364,658	d	11,746,111	389,247	d	12,135,358
1964	13,035,200	4,405,100	17,440,300	1,638,161	339,996	15,462,143	2,082,029		128,804	433,204	302,781	d	12,515,325	421,421	d	12,936,746
1965	13,523,600	4,439,500	17,963,100	1,604,204	319,143	16,039,753	1,909,697		118,115	500,524	318,711	d	13,192,706	430,262	d	13,622,968
1966	13,893,921	5,139,918	19,033,839	1,451,516	375,695	17,206,628	1,772,708		68,855	535,353	401,203	d	14,428,509	455,141	d	14,883,650
1967	15,346,853	4,904,923	20,251,776	1,590,574	489,877	18,171,325	784,534		184,829	575,752	296,214	d	15,189,030	482,612	d	15,671,642
1968	16,539,925	4,785,075	21,325,000	1,486,092	516,508	19,322,400	827,877		95,539	590,965	325,062	d	16,245,826	558,140	d	16,803,966
1969	17,489,415	5,189,780	22,679,195	1,455,205	525,750	20,698,240	866,560		119,500	630,962	331,587	d	17,403,983	675,647	d	18,079,630
1970	18,594,658	5,191,795	23,786,453	1,376,351	489,460	21,920,642	906,413		398,160	722,166	227,650	d	18,267,495	750,967	d	18,018,462
1971	18,925,136	5,162,895	24,088,031	1,310,453	284,561	22,493,012	883,127		331,768	742,592	338,999	d	18,782,876	854,336	d	19,637,212
1972	19,042,592	4,973,517	24,016,109	1,236,292	248,119	22,531,698	907,993		135,734	766,156	328,002	d	18,938,250	941,483	d	19,879,733
1973	19,371,600	4,695,602	24,067,202	1,171,361	248,292	22,547,549	916,551		441,504	728,177	195,863	d	18,869,539	955,732	d	19,825,271
1974	18,669,212	4,180,581	22,849,793	1,079,890	169,381	21,600,522	887,490		83,663	668,792	288,731	d	18,194,460	882,495	d	19,076,955
1975	17,380,293	3,723,237	21,103,530	860,956	133,913	20,106,661	872,282		344,054	582,963	235,068	d	16,678,020	880,333	d	17,558,353
1976	17,190,655	3,753,123	20,943,778	859,410	131,930	20,052,438	854,086		(165,327)	548,323	216,240	d	16,864,760	899,058	d	17,763,818
1977	17,415,983	3,681,088	21,097,071	934,801	136,807	20,925,463	862,563		556,631	532,669	41,063	d	16,373,392	955,375	d	17,328,767
1978	17,394,213	3,914,602	21,308,815	1,181,432	153,350	19,974,033	852,130		120,237	530,451	287,201	d	16,536,103	913,013	d	17,449,116
1979	18,033,879	3,849,474	21,883,353	1,245,074	167,019	20,471,260	807,845		248,034	600,964	372,330	d	16,943,557	1,197,710	d	18,141,267
1980	17,572,526	4,297,166	21,869,692	1,365,454	125,451	20,378,787	776,605		(23,269)	634,622	343,564	495,058	17,125,769	935,874	154,590	18,216,233

a. Includes gas (mostly residue gas) blown to the air but does not include direct waste on producing properties, except where data are available.
b. "Marketed Production" equals "Total Gross Production" less "Repressuring" and "Vented and Flared". It includes an allowance for natural gas liquids content in the natural gas and nonhydrocarbon gases.
c. Defined as Domestic Dry Production For Sale plus Net Imports plus Supplemental Gas Supplies. See Table 25 for details on Supplemental Gas Supplies.
() : Denotes negative.
Sources: Energy Information Administration, U.S. Department of Energy, *Natural Gas Annual*.
Note: 1981 data reported by U.S. Department of Energy, *Monthly Energy Review*, May, 1982 is as follows: "Marketed Production"—20,195,000 million of cubic feet (MMcf); "Net Imports"—877,000 MMcf; "Net Change in Underground Storage"—minus 367,000 MMcf.

GAS FACTS

TABLE 16
GROSS PRODUCTION OF NATURAL GAS, BY STATE, 1955-1980^a

(Millions of cubic feet)

Division and State	1955	1965	1970	1975	1978	1979	1980
United States	11,719,794	17,963,100	23,786,453	21,103,530	21,308,815	21,883,353	21,869,692
New England	0	0	0	0	0	0	0
Middle Atlantic	103,800	88,240	80,472	92,400	111,663	111,813	113,089
New Jersey	0	0	0	0	0	0	0
New York	4,000	3,340	3,358	7,628	13,900	15,500	15,650
Pennsylvania	99,800	84,900	77,114	84,772	97,763	96,313	97,439
East North Central	92,000	82,700	97,276	191,497	268,745	291,460	305,003
Illinois	40,400	7,500	4,972	1,440	1,159	1,585	1,574
Indiana	4,500	2,400	153	346	163	350	463
Michigan	12,100	36,900	40,038	103,901	152,184	164,860	164,110
Ohio	35,000	35,900	52,113	85,810	115,239	124,665	138,856
Wisconsin	0	0	0	0	0	0	0
West North Central	558,500	866,900	965,535	877,137	897,240	849,690	791,315
Iowa	0	0	0	0	0	0	0
Kansas	525,000	806,800	904,475	846,164	857,071	800,163	737,246
Minnesota	0	0	0	0	0	0	0
Missouri	b	b	b	30	0	0	0
Nebraska	18,000	12,100	6,309	3,963	2,882	3,208	2,550
North Dakota	15,500	48,000	54,751	26,941	37,287	45,400	50,321
South Dakota	0	0	b	39	0	919	1,198
South Atlantic	218,084	211,060	246,599	205,683	200,739	209,267	210,852
Delaware	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	b	b	b	44,383	51,595	50,190	46,421
Georgia	0	0	0	0	0	0	0
Maryland	3,116	408	813	93	88	28	68
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	968	3,152	2,805	6,723	8,492	8,544	7,812
West Virginia	214,000	207,500	242,981	154,484	148,564	150,505	156,551
East South Central	342,000	277,300	234,912	192,544	310,020	344,196	385,362
Alabama	b	b	b	38,921	90,012	90,695	111,836
Kentucky	76,000	79,100	77,892	60,511	70,044	59,520	57,180
Mississippi	266,000	198,200	157,020	92,500	148,482	192,376	215,105
Tennessee	b	b	b	612	1,482	1,605	1,241
West South Central	8,794,000	14,022,900	19,469,337	17,073,397	16,647,141	17,038,145	16,810,823
Arkansas	55,000	104,000	183,650	121,518	127,954	127,469	127,696
Louisiana	1,948,000	4,764,300	8,076,157	7,242,408	7,638,931	7,358,795	7,008,489
Oklahoma	955,000	1,414,000	1,811,004	1,720,698	1,892,413	1,958,337	2,018,577
Texas	5,836,000	7,740,600	9,398,526	7,988,773	6,987,843	7,593,544	7,656,061
Mountain	808,900	1,492,500	1,744,236	1,849,992	1,884,932	1,968,293	1,952,333
Arizona	b	b	b	255	286	348	357
Colorado	97,000	155,200	115,157	174,145	185,019	192,694	191,806
Idaho	0	0	0	0	0	0	0
Montana	29,000	29,800	48,302	44,547	48,497	56,094	53,802
Nevada	0	0	0	0	0	0	0
New Mexico	565,000	956,500	1,141,889	1,227,200	1,198,593	1,200,469	1,168,049
Utah	17,900	92,100	73,386	77,607	80,227	78,674	87,766
Wyoming	100,000	258,900	365,502	326,238	372,310	440,014	450,553
Pacific	802,000	917,800	945,099	620,880	980,335	1,070,489	1,300,915
Alaska	0	12,800	217,854	253,227	596,834	732,990	893,759
California	802,000	905,000	727,245	367,653	383,501	337,497	407,151
Hawaii	0	0	0	0	0	0	0
Oregon	0	0	0	0	0	2	5
Washington	0	0	0	0	0	0	0
Other States	510	3,700	2,987	0	0	0	0

a. Includes gas (mostly residue gas) blown to the air, but does not include direct waste on producing properties, except where data are available.

b. Included in "Other States."

Source: Energy Information Administration, U.S. Department of Energy, *Natural Gas Annual*, 1980.

SUPPLY

TABLE 17
NET WELLHEAD PRODUCTION OF NATURAL GAS, BY STATE, 1955-1980^a

(Millions of cubic feet)

Division and State	1955	1965	1970	1975	1978	1979	1980
United States	10,178,990	16,358,896	22,410,102	20,242,574	20,127,383	20,638,279	20,504,238
New England	0	0	0	0	0	0	0
Middle Atlantic	103,653	87,842	80,199	92,400	111,663	111,813	113,009
New Jersey	0	0	0	0	0	0	0
New York	4,000	3,340	3,358	7,628	13,900	15,500	15,650
Pennsylvania	99,653	84,502	76,841	84,772	97,763	96,313	97,439
East North Central	89,101	80,800	96,898	190,471	266,203	288,057	302,628
Illinois	39,763	7,500	4,972	1,440	1,159	1,585	1,574
Indiana	4,463	2,400	153	346	163	350	463
Michigan	9,930	35,000	39,660	103,725	150,783	162,691	161,735
Ohio	34,945	35,900	52,113	84,960	114,098	123,431	138,856
Wisconsin	0	b	0	0	0	0	0
West North Central	555,971	860,204	963,410	875,409	895,514	848,090	789,841
Iowa	0	0	0	0	0	0	0
Kansas	522,826	806,683	902,668	844,471	855,345	798,563	735,772
Minnesota	0	0	0	0	0	0	0
Missouri	b	b	b	30	0	0	0
Nebraska	17,645	11,985	5,991	3,963	2,882	3,208	2,550
North Dakota	15,500	41,536	54,751	26,941	37,287	45,400	50,321
South Dakota	0	0	b	5	0	919	1,198
South Atlantic	217,968	211,044	246,070	205,683	208,739	209,267	210,852
Delaware	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	b	b	b	44,383	51,595	50,190	46,421
Georgia	0	0	0	0	0	0	0
Maryland	3,116	408	813	93	88	28	68
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	968	3,152	2,805	6,723	8,492	8,544	7,812
West Virginia	213,884	207,484	242,452	154,484	148,564	150,505	156,551
East South Central	279,323	255,601	211,156	186,251	300,775	330,393	369,219
Alabama	b	b	b	38,921	87,294	87,312	108,702
Kentucky	75,921	79,100	77,892	60,511	70,044	59,520	57,180
Mississippi	203,402	176,501	133,264	86,207	142,852	182,494	202,096
Tennessee	b	b	b	612	585	1,067	1,241
West South Central	7,614,965	12,769,359	13,306,535	16,387,930	15,988,776	16,466,145	16,273,072
Arkansas	38,351	83,845	181,577	117,555	107,661	109,923	112,202
Louisiana	1,746,236	4,589,349	7,942,365	7,116,104	7,506,304	7,292,278	6,962,775
Oklahoma	829,055	1,356,738	1,724,572	1,637,212	1,801,071	1,861,971	1,917,379
Texas	5,001,323	6,739,427	8,458,021	7,517,059	6,573,740	7,201,973	7,280,716
Mountain	770,995	1,416,853	1,705,299	1,813,914	1,832,089	1,909,773	1,898,955
Arizona	b	b	b	255	286	348	357
Colorado	68,863	131,342	112,930	174,145	184,801	192,438	191,610
Idaho	0	0	0	0	0	0	0
Montana	28,873	29,221	47,908	43,936	47,930	55,577	53,572
Nevada	0	0	0	0	0	0	0
New Mexico	562,227	945,794	1,141,889	1,219,072	1,182,361	1,185,999	1,154,992
Utah	17,900	72,306	45,633	57,160	58,885	59,165	87,766
Wyoming	93,132	238,190	356,939	319,346	357,826	416,246	410,658
Pacific	546,504	673,493	798,000	499,516	523,624	474,741	546,582
Alaska	0	7,331	146,384	170,671	211,580	225,280	235,408
California	546,504	666,162	651,616	319,845	312,044	249,459	311,169
Hawaii	0	0	0	0	0	0	0
Oregon	0	0	0	0	0	2	5
Washington	0	0	0	0	0	0	0
Other States	510	3,700	2,535	0	0	0	0

a. As defined by A.G.A. "Net Wellhead Production" equals "Gross Production" less gas for repressuring (see Table 15) and therefore includes natural gas liquids.

b. Included in "Other States."

Source: Energy Information Administration, U.S. Department of Energy, *Natural Gas Annual*, 1980.

GAS FACTS

TABLE 18
MARKETED PRODUCTION OF NATURAL GAS, BY STATE, 1955-1980

(Millions of cubic feet)

Division and State	1955	1965	1970	1975	1978	1979	1980 ^b
United States	9,405,351	16,039,753	21,920,642	20,108,661	19,974,033	20,471,260	20,378,787
New England	0	0	0	0	0	0	0
Middle Atlantic	102,809	87,801	80,199	92,304	111,663	111,813	113,082
New Jersey	0	0	0	0	0	0	0
New York	3,637	3,340	3,358	7,628	13,900	15,500	15,643
Pennsylvania	99,172	84,461	76,841	84,676	97,763	96,313	97,439
East North Central	51,315	77,877	95,967	188,859	263,467	285,097	299,195
Illinois	8,033	7,396	4,850	1,440	1,159	1,585	1,574
Indiana	1,226	239	153	346	163	350	463
Michigan	8,300	34,558	38,851	102,113	148,047	159,731	158,302
Ohio	33,756	35,584	52,113	84,960	114,098	123,431	138,856
Wisconsin	0	0	0	0	0	0	0
West North Central	488,812	839,751	940,922	871,006	887,865	820,352	781,124
Iowa	0	0	0	0	0	0	0
Kansas	471,041	793,379	899,955	843,625	854,484	797,762	735,035
Minnesota	0	0	0	0	0	0	0
Missouri	a	a	87	30	0	0	0
Nebraska	12,515	10,720	5,991	2,565	2,882	3,208	2,550
North Dakota	5,256	35,652	34,889	24,786	30,499	18,468	42,346
South Dakota	0	a	0	0	0	914	1,193
South Atlantic	216,487	210,976	246,070	205,683	208,739	209,267	210,175
Delaware	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	a	a	0	44,383	51,595	50,190	45,744
Georgia	0	0	0	0	0	0	0
Maryland	3,116	408	813	93	88	28	68
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	968	3,152	2,805	6,723	8,492	8,544	7,812
West Virginia	212,403	207,416	242,452	154,484	148,564	150,505	156,551
East South Central	236,381	245,801	204,614	172,697	262,690	290,353	349,417
Alabama	a	a	627	37,814	85,599	85,815	105,527
Kentucky	73,214	78,976	77,892	60,511	70,044	59,520	57,180
Mississippi	163,167	166,825	126,031	74,345	106,579	141,077	185,469
Tennessee	a	a	64	27	468	941	1,241
West South Central	7,057,929	12,507,167	17,922,286	16,298,056	15,905,055	16,385,658	16,195,435
Arkansas	32,123	82,831	181,351	116,237	106,792	109,452	111,808
Louisiana	1,680,032	4,466,786	7,788,276	7,090,645	7,476,497	7,266,217	6,939,924
Oklahoma	614,976	1,320,995	1,594,043	1,605,410	1,773,582	1,835,366	1,891,824
Texas	4,730,798	6,636,555	8,357,716	7,485,764	6,548,184	7,174,623	7,251,879
Mountain	713,053	1,399,156	1,669,891	1,801,478	1,820,382	1,899,758	1,889,983
Arizona	a	a	1,101	208	286	247	214
Colorado	49,152	126,381	105,804	171,629	183,693	191,239	190,814
Idaho	0	0	0	0	0	0	0
Montana	28,255	28,105	42,705	40,734	46,522	53,888	51,867
Nevada	0	0	0	0	0	0	0
New Mexico	540,664	937,205	1,138,980	1,217,430	1,174,198	1,181,363	1,149,781
Utah	17,163	71,616	42,781	55,354	58,416	58,605	87,766
Wyoming	77,819	235,849	338,520	316,123	357,267	414,416	409,541
Pacific	538,178	667,639	760,693	478,578	514,172	468,962	540,376
Alaska	0	7,255	111,576	160,270	203,088	220,754	230,588
California	538,178	660,384	649,117	318,308	311,084	248,206	309,783
Hawaii	0	0	0	0	0	0	0
Oregon	0	0	0	0	0	2	5
Washington	0	0	0	0	0	0	0
Other States	387	3,585	0	0	0	0	0

a. Included in "Other States."

b. Includes 495,058 million cubic feet of Nonhydrocarbon gases.

Source: Energy Information Administration, U.S. Department of Energy, *Natural Gas Annual*, 1980.

SUPPLY

TABLE 19
NATURAL GAS DELIVERED TO CONSUMERS BY STATE, 1955-1980^a

(Millions of cubic feet)

Division and State	1955	1965	1970	1975	1978	1979	1980 ^k
United States	7,317,426	13,622,968	19,018,462	17,588,353	17,449,116	18,141,267	18,216,233
New England	63,358	175,051	242,507	254,070	262,220	265,770	297,506
Connecticut	14,130	40,722	60,524	63,968	65,151	67,898	72,512
Maine	0	0	10,691 ^b	13,534 ^b	14,039 ^b	14,881 ^b	2,166
Massachusetts	42,730	113,994	146,226	153,461	160,000	155,808	181,912
New Hampshire	1,206	4,084	c	c	c	c	9,448
Rhode Island	5,292	16,251	25,066	23,107	23,030	27,183	27,477
Vermont	0	0	c	c	c	c	3,991
Middle Atlantic	695,487	1,357,337	1,772,600	1,451,698	1,441,712	1,591,303	1,818,067
New Jersey	74,424	209,306	321,910	243,714	228,339	260,025	339,358
New York	242,144	540,672	707,219	573,699	566,198	619,576	733,800
Pennsylvania	378,919	607,359	743,471	634,285	647,175	711,702	744,909
East North Central	1,225,971	2,706,665	3,843,966	3,718,831	3,658,817	3,691,805	3,628,619
Illinois	365,443	742,906	1,145,379	1,080,787	1,161,536	1,123,836	1,074,771
Indiana	122,501	349,827	534,214	467,736	436,085	494,333	480,346
Michigan	203,183	548,390	795,317	865,539	774,943	848,612	846,278
Ohio	494,627	866,589	1,037,801	944,925	917,194	861,391	883,613
Wisconsin	40,217	198,953	331,255	359,844	369,059	363,633	343,611
West North Central	805,965	1,398,950	1,826,005	1,686,351	1,537,634	1,637,700	1,455,928
Iowa	132,050	236,443	330,363	329,703	233,298	280,749	256,900
Kansas	242,012	385,364	481,483	402,273	425,698	481,956	411,494
Minnesota	123,606	247,561	334,872	327,315	309,570	323,172	276,717
Missouri	191,015	332,219	416,783	362,130	353,992	340,195	312,872
Nebraska	96,608	155,359	207,550	207,371	152,942	161,118	152,283
North Dakota	d	15,069	18,645	24,757	26,743	25,184	21,660
South Dakota	20,674 ^e	26,935	36,309	32,502	35,391	25,326	24,002
South Atlantic	401,426	909,869	1,465,035	1,268,171	1,226,013	1,365,035	1,390,415
Delaware	f	17,969	26,421	18,603	20,623	24,977	29,797
District of Columbia	g	g	g	g	g	g	27,868
Florida	26,366	182,093	332,223	271,471	311,893	332,664	304,638
Georgia	133,044	206,560	325,650	322,383	274,832	308,177	307,827
Maryland	58,301 ^h	113,943 ^h	179,784 ^h	163,462 ^h	158,945 ^h	196,774 ^h	156,300
North Carolina	10,520	71,473	145,076	111,276	79,390	125,867	147,448
South Carolina	21,977	84,564	156,559	120,308	113,690	116,421	139,214
Virginia	36,640	88,907	128,492	118,083	131,270	129,779	149,980
West Virginia	114,478	144,360	170,830	142,585	135,370	130,376	127,343
East South Central	457,380	727,845	1,009,983	809,664	747,478	849,942	856,158
Alabama	144,957	216,998	278,414	245,287	223,048	248,944	242,793
Kentucky	93,790	142,438	209,991	182,781	188,669	191,668	180,368
Mississippi	108,264	189,603	293,154	183,807	166,644	203,655	219,828
Tennessee	110,369	178,806	228,424	197,789	169,117	205,675	213,169
West South Central	2,377,047	3,848,796	5,545,215	5,332,025	5,862,752	5,723,426	5,873,159
Arkansas	171,600	255,637	359,338	241,803	205,680	230,807	260,319
Louisiana	601,651	857,118	1,482,275	1,425,686	1,609,552	1,615,568	1,523,691
Oklahoma	181,308	389,314	475,974	565,387	669,121	671,025	639,642
Texas	1,422,488	2,346,727	3,227,628	3,099,149	3,378,401	3,206,026	3,449,507
Mountain	440,802	757,368	1,020,744	982,840	906,796	910,084	842,444
Arizona	82,897 ⁱ	136,297	168,994	139,130	159,866	152,366	144,511
Colorado	129,442	219,602	277,739	294,760	252,360	263,629	241,765
Idaho	0	32,831	42,367	56,182	39,770	49,759	44,835
Montana	43,871	64,320	81,992	75,441	68,305	62,706	54,460
Nevada	j	27,679	52,558	61,251	64,506	84,433	58,284
New Mexico	108,406	130,072	191,818	172,638	152,844	131,248	146,579
Utah	48,563	105,524	120,814	116,620	109,210	111,354	106,647
Wyoming	27,623	41,043	84,462	66,818	59,935	54,589	45,363
Pacific	849,990	1,741,087	2,292,407	2,055,003	1,805,692	2,106,202	2,053,937
Alaska	0	5,917	41,672	66,815	128,943	144,203	122,965
California	849,990	1,572,367	2,017,393	1,727,729	1,478,849	1,726,714	1,729,650
Hawaii	0	0	0	0	0	0	3,131
Oregon	0	55,383	89,776	101,980	77,409	84,432	73,083
Washington	0	107,420	143,566	158,479	120,491	150,853	125,107

a. Includes deliveries made directly to end users in addition to gas utility sales as shown in Table 68.

b. Includes New Hampshire and Vermont. e. Includes North Dakota.

c. Included in Maine. f. Included in Maryland.

d. Included in South Dakota. g. Includes Delaware and District of Columbia.

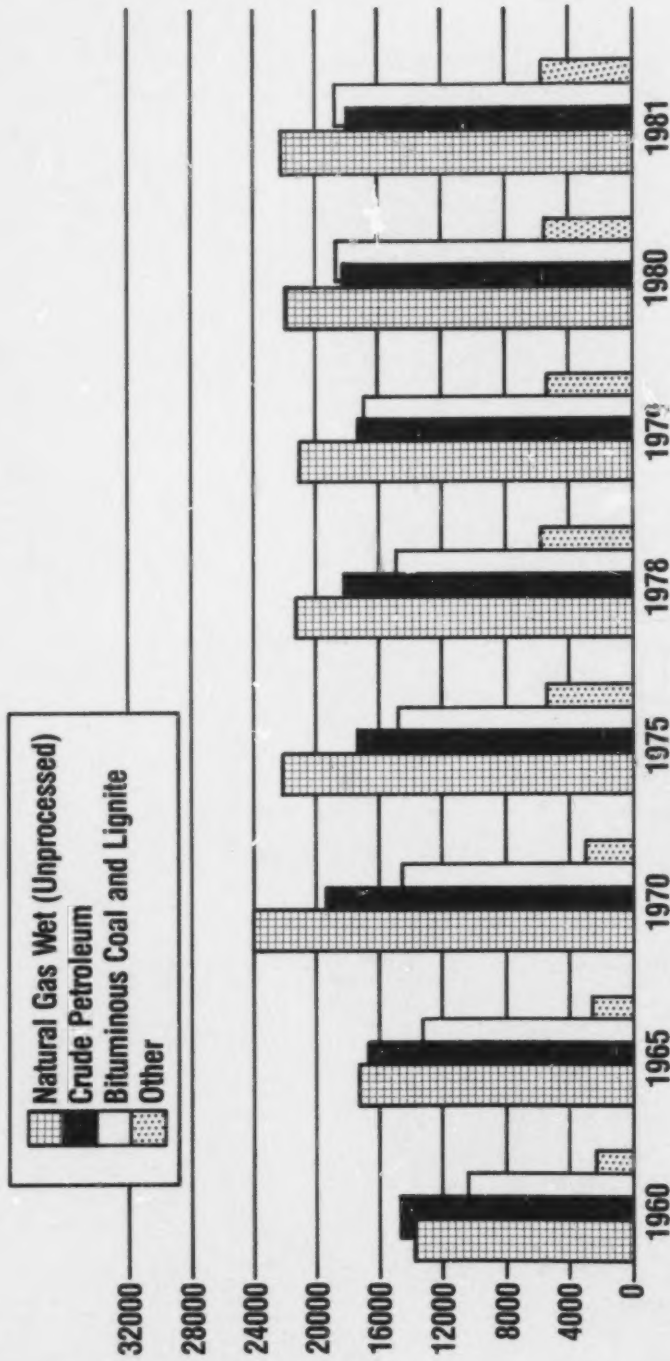
k. Includes 154,590 million cubic feet (MMcf) of Supplemental Gas Supplies, less 495,058 MMcf of Nonhydrocarbon Gases.

Source: Energy Information Administration, U.S. Department of Energy, *Natural Gas Annual*, 1980.

CHART 6

UNITED STATES ENERGY PRODUCTION

TRILLIONS OF BTU



REFERENCE: TABLE 20

SUPPLY

TABLE 20
ANNUAL PRODUCTION OF FOSSIL ENERGY RESOURCES AND ELECTRICITY
FROM HYDROPOWER AND NUCLEAR POWER IN THE UNITED STATES, 1960-1981

(Trillions of Btu)^a

Year	Natural Gas Wet (unprocessed)	Crude Petroleum	Bituminous Coal and Lignite	Anthracite Coal	Hydro- power ^b	Nuclear ^c	Other ^e	Grand Total Energy
1960	13,822	14,935	10,886	478	1,578	5	*	41,704
1965	17,628	16,521	13,417	378	2,033	38	*	50,015
1966	18,984	16,925	13,507	329	2,062	57	*	51,864
1967	20,087	18,100	13,904	311	2,347	80	*	54,829
1968	21,548	18,593	13,664	291	2,349	130	*	56,575
1969	22,838	18,886	13,957	266	2,648	146	*	58,741
1970	24,154	19,772	14,820	247	2,630	229	*	61,852
1971	24,805	20,033	13,385	222	2,825	404	*	61,674
1972	24,792	20,041	14,319	181	2,866	576	*	62,775
1973 ^R	24,756	19,493	14,192	174	2,861	910	46	62,433
1974 ^R	23,681	18,575	14,300	168	3,177	1,272	56	61,229
1975 ^R	22,014	17,729	15,031	158	3,155	1,900	72	60,059
1976 ^R	21,807	17,262	15,695	158	2,976	2,111	81	60,091
1977 ^R	21,892	17,454	15,829	d	2,333	2,702	82	60,293
1978 ^R	21,730	18,434	15,037	d	2,937	3,024	68	61,231
1979 ^R	22,362	18,104	17,651	d	2,931	2,715	89	63,851
1980 ^R	22,366	18,249	19,209	d	2,990	2,672	114	65,499
1981	22,197	18,125	18,987	d	2,732	2,901	127	65,069

a. The unit heat values employed are: Anthracite, 12,700 Btu per pound; bituminous coal and lignite, 12,005 Btu per pound; petroleum approx. 5,800,000 Btu per barrel, obtained by using 5,248,000 for gasoline, 5,670,000 for kerosene, 5,825,000 for distillate, 6,287,000 for residual, 6,065,000 for lubricants, 5,537,000 for wax, 6,636,000 for asphalt and 5,796,000 miscellaneous; natural gas dry 1,021 Btu per cubic foot; natural gas liquids obtained by using 110,000 Btu per gallon for natural gasoline; 95,500 Btu per gallon for LP gas and ethane at 73,390 Btu per gallon.

b. Hydropower output is converted to theoretical energy inputs calculated from national average heat rates for fossil-fueled steam-electric plants obtained from the Federal Power Commission.

c. Nuclear power energy input conversion is based on information from the Atomic Power Commission.

d. Included in "Bituminous Coal and Lignite."

e. Includes geothermal power and electricity produced from wood and waste.

Source: Prior to 1977 U.S. Bureau of Mines, for 1977 and beyond, data taken from *Monthly Energy Review*, U.S. Dept. of Energy.

R—Revised

*Unavailable

TABLE 21
ANNUAL PRODUCTION OF FOSSIL ENERGY RESOURCES AND ELECTRICITY
FROM HYDROPOWER AND NUCLEAR POWER IN THE UNITED STATES, 1960-1981

(Percentage)

Year	Natural Gas Wet (unprocessed)	Crude Petroleum	Bituminous Coal and Lignite	Anthracite Coal	Hydro- power	Nuclear	Other ^c	Grand Total Energy
1960	33.2	35.8	26.1	1.1	3.8	a	*	100.0
1965	35.2	33.0	26.8	0.8	4.1	0.1	*	100.0
1966	36.6	32.6	26.1	0.6	4.0	0.1	*	100.0
1967	36.6	33.0	25.4	0.6	4.3	0.1	*	100.0
1968	38.1	32.8	24.2	0.5	4.2	0.2	*	100.0
1969	38.9	32.2	23.8	0.4	4.5	0.2	*	100.0
1970	39.0	32.0	24.0	0.4	4.2	0.4	*	100.0
1971 ^R	40.2	32.5	21.7	0.4	4.6	0.6	*	100.0
1972 ^R	39.5	31.9	22.8	0.3	4.6	0.9	*	100.0
1973 ^R	39.7	31.2	22.7	0.3	4.6	1.4	0.1	100.0
1974 ^R	38.7	30.3	23.4	0.3	5.2	2.0	0.1	100.0
1975 ^R	36.7	29.5	25.0	0.3	5.3	3.1	0.1	100.0
1976 ^R	36.3	28.7	26.1	0.3	5.0	3.5	0.1	100.0
1977 ^R	36.3	28.9	26.3	b	3.9	4.5	0.1	100.0
1978 ^R	35.5	30.1	24.6	b	4.8	4.9	0.1	100.0
1979 ^R	35.0	28.4	27.6	b	4.6	4.3	0.1	100.0
1980 ^R	34.1	27.9	29.3	b	4.4	4.1	0.2	100.0
1981	34.1	27.9	29.2	b	4.2	4.4	0.2	100.0

a. Less than 0.05.

*Unavailable

b. Included in "Bituminous Coal and Lignite."

c. Includes geothermal power and electricity produced from wood and waste.

Source: Same as Table 20.

R—Revised

GAS FACTS

TABLE 22
TOTAL OFFSHORE PRODUCTION OF NATURAL GAS AND PERCENT
STATE/FEDERALLY CONTROLLED, BY STATE, 1955-1981

Year	Alaska			California			Louisiana			Texas			Total		
	Percent		MMcf	Percent		MMcf	Percent		MMcf	Percent		MMcf	Percent		OCS
	State	OCS		State	OCS		State	OCS		State	OCS		State	OCS	
1955	—	—	—	100	—	—	33	67	6,880	100	—	—	37	63	—
1956	—	—	—	100	—	—	39	61	6,880	100	—	—	42	58	—
1957	—	—	—	100	—	—	49	51	13,765	100	—	—	53	47	—
1958	—	—	—	100	—	—	45	55	24,080	100	—	—	51	49	—
1959	—	—	—	100	—	—	37	63	24,080	100	—	—	41	59	—
1960	—	—	—	100	—	—	33	67	30,150	100	—	—	38	62	—
1961	—	—	—	100	—	—	31	69	458,481	100	—	—	33	67	—
1962	—	—	—	100	—	—	23	77	588,361	100	—	—	29	71	—
1963	—	—	—	100	—	—	20	80	706,545	100	—	—	26	74	—
1964	—	—	—	100	—	—	21	79	783,474	100	—	—	27	73	—
1965	10	—	40,770	100	—	—	26	74	871,124	100	—	—	31	69	—
1966	1,200	—	46,839	100	—	—	24	76	1,265,899	100	—	—	27	73	—
1967	8,324	—	46,732	100	—	—	34	66	1,635,223	100	—	—	35	65	—
1968	22,844	—	86,565	99	1	—	31	69	2,057,291	100	—	—	34	66	—
1969	44,393	—	81,326	94	6	—	26	74	2,478,745	100	—	—	31	69	—
1970	82,369	—	71,225	83	17	—	19	81	2,800,104	100	—	—	25	75	—
1971	83,750	—	60,484	74	26	—	18	82	3,219,200	100	—	—	26	74	—
1972	74,982	—	44,830	78	22	—	17	83	3,480,831	100	—	—	19	81	—
1973	72,526	—	37,581	81	19	—	15	85	3,614,892	100	—	—	17	83	—
1974	73,295	—	30,156	82	18	—	14	86	3,871,964	100	—	—	17	83	—
1975	75,581	—	27,272	86	14	—	13	87	3,821,746	100	—	—	19	81	—
1976	72,164	—	14,305	76	24	—	13	87	4,003,808	100	—	—	16	84	—
1977	75,735	—	14,961	78	22	—	11	89	4,094,784	100	—	—	18	82	—
1978	46,517	—	16,772	79	21	—	11	89	4,909,206	100	—	—	14	86	—
1979	49,319	—	15,969	82	18	—	10	90	4,636,462	100	—	—	14	86	—
1980	50,142	—	14,707	79	21	—	9	91	4,422,826	100	—	—	14	86	—
1981	49,355	—	20,512	62	38	—	8	92	4,480,935	100	—	—	12	88	—

Source: U.S. Department of the Interior, Minerals Management Service, *Calendar Year 1981 Oil & Gas, plus Mining Statistics*.

SUPPLY

TABLE 23
EXPORTS OF NATURAL GAS FROM THE UNITED STATES, 1955-1981

(Millions of cubic feet)

Year	Total	Canada	Mexico	Japan ^a
1955	31,397	11,494	19,903	0
1960	16,100	5,574	10,526	0
1965	27,428	17,892	9,536	0
1966	54,860	44,958	9,902	0
1967	81,595	70,456	11,139	0
1968	93,745	81,647	12,098	0
1969	51,308	34,936	13,390	2,982
1970	69,813	10,860	14,678	44,275
1971	80,365	14,349	15,785	50,231
1972	78,014	15,553	14,579	47,882
1973	77,169	14,824	13,999	48,346
1974	76,789	13,263	13,268	50,258
1975	72,675	10,219	9,454	53,002
1976	64,710	7,506	7,425	49,779
1977	55,626	31	3,940	51,655
1978	52,533	66	4,033	48,434
1979	55,673	76	4,308	51,289
1980	48,731 ^b	113 ^b	3,886	44,732
1981	59,402	106	3,367	55,929

a. LNG exports from Alaska.

b. Volume does not include 282,274 MMcf of intransit natural gas deliveries. The difference of 162 MMcf in the volumes of intransit receipts and deliveries is due to variations in the accounting and billing practices for companies involved in the transfers.

Source: U.S. Department of Energy, Natural Gas Division.

TABLE 24
IMPORTS OF NATURAL GAS TO THE UNITED STATES, 1955-1981

(Millions of cubic feet)

Year	Total	Canada	Mexico	Algeria ^a
1955	10,892	10,885	7	0
1960	156,843	109,855	46,988	0
1965	456,694	404,687	52,007	0
1966	480,591	431,955	48,636	0
1967	564,228	513,256	50,972	0
1968	651,885	604,462	47,423	0
1969	726,952	680,107	46,845	0
1970	820,781	778,688	41,336	757
1971	934,547	910,925	20,689	2,933
1972	1,019,495	1,009,092	8,140	2,262
1973	1,032,903	1,027,216	1,632	4,055
1974	959,285	959,063	222	0
1975	953,007	948,114	0	4,893
1976	963,768	953,613	0	10,155
1977	1,010,431	996,723	2,384	11,324
1978	965,545	881,123	0	84,422
1979	1,253,383	1,000,775	0	252,608
1980	984,767 ^c	796,507 ^c	102,410	85,850 ^d
1981	903,950	762,113 ^b	105,013	36,824

a. Quantities represent total LNG imports from overseas into the U.S.

b. Includes 6 million cubic feet of LNG.

c. Volume does not include 282,112 MMcf of intransit natural gas receipts.

d. Volume delivered by state: Massachusetts—24,274 MMcf, Georgia—24,603 MMcf, Maryland—36,973 MMcf.

Source: U.S. Department of Energy, Natural Gas Division.

GAS FACTS

TABLE 25
SUPPLEMENTAL GAS SUPPLIES BY STATE, 1980

(Millions of cubic feet)

Division and State	Total	Synthetic Natural Gas	Propane- Air	Refinery Gas	Other ^a
Total United States	154,590	123,543	20,467	10,243	336
New England	16,698	12,716	3,981	0	0
Connecticut	144	0	144	0	0
Maine	157	0	157	0	0
Massachusetts	15,366	12,716	2,649	0	0
New Hampshire	774	0	774	0	0
Rhode Island	257	0	257	0	0
Vermont	0	0	0	0	0
Middle Atlantic	15,927	5,581	904	9,440	0
New Jersey	9,574	1,954	577	7,042	0
New York	3,226	3,171	55	0	0
Pennsylvania	3,127	456	272	2,398	0
East North Central	107,489	101,956	4,731	803	0
Illinois	36,713	32,800	3,914	0	0
Indiana	1,602	0	799	803	0
Michigan	3	0	3	0	0
Ohio	69,169	69,156	13	0	0
Wisconsin	2	0	2	0	0
West North Central	384	0	214	0	170^d
Iowa	57	0	57	0	0
Kansas	0	0	0	0	0
Minnesota	48	0	48	0	0
Missouri	65	0	65	0	0
Nebraska	9	0	9	0	0
North Dakota	196	0	26	0	170 ^d
South Dakota	9	0	9	0	0
South Atlantic	774	57	714	0	2^b
Delaware	55	0	55	0	0
District of Columbia	2	0	0	0	2 ^b
Florida	1	0	1	0	0
Georgia	24	0	24	0	0
Maryland	484	0	484	0	0
North Carolina	7	0	7	0	0
South Carolina	74	0	74	0	0
Virginia	127	57	69	0	0
West Virginia	0	0	0	0	0
East South Central	104	43	21	0	40^c
Alabama	50	43	7	0	0
Kentucky	42	0	2	0	40 ^c
Mississippi	0	0	0	0	0
Tennessee	12	0	12	0	0
West South Central	7	0	7	0	0
Arkansas	7	0	7	0	0
Louisiana	0	0	0	0	0
Oklahoma	0	0	0	0	0
Texas	0	0	0	0	0
Mountain	10,003	0	9,879	0	124^d
Arizona	7	0	7	0	0
Colorado	9,868	0	9,868	0	0
Idaho	0	0	0	0	0
Montana	0	0	0	0	0
Nevada	4	0	4	0	0
New Mexico	0	0	0	0	0
Utah	0	0	0	0	0
Wyoming	124	0	0	0	124 ^d
Pacific	3,205	3,190	15	0	0
Alaska	0	0	0	0	0
California	0	0	0	0	0
Hawaii	3,190	3,190	0	0	0
Oregon	0	0	0	0	0
Washington	15	0	15	0	0

a. Includes bio-mass gas, manufactured gas, and air injection for Btu stabilization.

b. Manufactured gas.

c. Bio-mass gas.

d. Air injection for Btu stabilization.

*Less than 500 thousand cubic feet.

Note: Totals may not add due to independent rounding.

Source: Energy Information Administration, U.S. Department of Energy, *Natural Gas Annual—1980*.

SUPPLY

TABLE 28
NATURAL GAS TREATED FOR NATURAL GASOLINE AND ALLIED PRODUCTS, AND QUANTITIES AND VALUE OF PRODUCTS RECOVERED,
1955-1981^a

Year	Natural Gas Treated (Millions of cubic feet)	Products Recovered							
		Natural Gasoline		Liquefied Petroleum Gases		Finished Gasoline and Naphtha		Other Products ^b	
		Quantity (Thousands of gallons)	Value (Thousands of dollars)	Quantity (Thousands of gallons)	Value (Thousands of dollars)	Quantity (Thousands of gallons)	Value (Thousands of dollars)	Quantity (Thousands of gallons)	Value (Thousands of dollars)
1955	8,185,953	4,457,079	\$313,075	5,972,698	\$195,231	823,103	\$72,192	564,722	\$38,508
1960	9,768,109	4,479,454	313,058	8,444,074	391,566	503,659	43,400	859,394	60,361
1961	10,261,669	4,666,319	311,966	9,085,465	370,186	473,496	31,996	965,648	68,057
1962	11,089,241	4,772,260	333,965	9,409,083	353,334	450,991	37,347	1,021,271	73,505
1963	12,430,353	4,899,323	320,131	10,372,250	359,770	499,901	40,922	1,135,743	78,120
1964	13,176,126	5,286,703	341,714	10,743,591	362,792	506,505	37,815	1,206,973	84,071
1965	13,772,101	5,457,367	360,603	11,257,267	417,249	439,267	36,270	1,391,436	97,481
1966	14,924,429	5,564,139	366,332	12,134,294	527,223	380,135	33,380	1,604,154	120,426
1967	15,641,633	5,850,271	389,156	13,717,861	632,994	307,263	28,044	1,731,727	129,742
1968	16,316,674	6,210,708	411,695	14,753,004	552,335	290,728	26,577	1,868,622	133,407
1969	17,655,108	6,633,018	457,986	15,895,194	498,927	374,514	36,954	1,467,396	108,144
1970	18,509,309	6,935,838	468,602	16,783,662	672,088	240,702	23,234	1,488,270	111,188
1971	19,252,807	6,942,474	496,676	17,540,628	769,397	224,784	23,210	1,240,344	96,771
1972	19,906,893	6,875,442	500,425	18,678,912	828,718	186,732	20,737	1,063,986	83,261
1973	19,679,291	6,791,736	568,214	18,775,386	1,188,289	136,038	13,902	942,606	86,668
1974	18,684,480	6,212,766	974,825	18,813,732	1,980,769	52,878	10,028	797,664	122,305
1975	17,748,426	5,620,608	777,637	18,651,612	1,893,890	45,528	8,411	712,488	92,650
1976	17,717,951	5,575,584	882,718	18,369,372	2,298,647	40,572	9,650	670,362	93,074
1977	17,569,835	5,587,134	c	18,604,152	c	30,156	c	577,668	c
1978	c	5,305,784	c	18,124,512	c	28,896	c	567,420	c
1979	c	4,042,668	c	26,008,878	c	271,908	c	917,952	c
1980 ^R	c	4,560,696	c	18,518,304	c	239,694	c	864,360	c
1981 ^P	c	3,770,970	c	19,650,414	c	98,364	c	821,604	c

a. Due to changes in reporting requirements, 1979 data is not comparable with prior years.

b. Includes plant condensate, kerosene, distillate fuel oil, and miscellaneous products.

c. Not available.

P--Preliminary.

R--Revised.

Source: Energy Information Administration, U.S. Department of Energy, *Monthly Petroleum Statement*, January 1981-December 1981. For 1980 data revised, Energy Administration, U.S. Department of Energy, *Energy Data Reports--Crude Petroleum Products and Natural Gas Liquids: 1980 (Final Summary)*.

GAS FACTS

TABLE 27
NUMBER OF PRODUCING GAS WELLS, BY STATE, 1960-1981^a

Division and State	1960	1965	1970	1975	1979	1980 ^R	1981 ^P
United States	90,761	111,680	117,483	132,095	169,891	182,004	189,609
New England	0	0	0	0	0	0	0
Middle Atlantic	17,350	18,666	16,839	18,200	22,000	21,976	23,026
New Jersey	0	0	0	0	0	0	0
New York	1,000	1,150	600	900	2,200	2,076	2,500
Pennsylvania	16,350	17,516	16,239	17,300	19,800	19,900	20,526
East North Central	7,612	7,626	9,082	11,110	16,909	18,442	20,054
Illinois	45	25	8	41	51	70	70
Indiana	350	275	50	478	655	698	698
Michigan	154	226	1,235	209	376	423	667
Ohio	7,063	7,100	7,789	10,382	15,827	17,251	18,619
Wisconsin	0	0	0	0	0	0	0
West North Central	6,093	7,281	8,735	8,925	10,652	12,935	11,091
Iowa	0	0	0	0	0	0	0
Kansas	6,003	7,200	8,660	8,865	10,544	12,820	11,014
Minnesota	0	0	0	0	0	0	0
Missouri	9	11	11	3	0	0	0
Nebraska	53	39	35	19	20	22	26
North Dakota	28	31	29	18	78	80	51
South Dakota	0	0	0	20	10	13	0
South Atlantic	14,630	19,719	20,833	21,901	24,995	26,167	27,199
Delaware	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	0	0	0	0	0	0
Maryland	38	20	16	15	12	9	0
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	92	99	115	186	258	258	274
West Virginia	14,500	19,600	20,702	22,700	24,725	25,900	26,925
East South Central	5,263	6,490	7,255	7,684	8,750	8,922	9,122
Alabama	4	0	2	45	250	314	309
Kentucky	4,829	6,100	6,913	7,386	7,883	7,984	8,033
Mississippi	400	370	325	248	433	447	570
Tennessee	30	20	15	5	184	177	210
West South Central	31,261	40,502	42,283	48,440	65,933	71,447	70,669
Arkansas	370	744	1,006	1,128	1,402	1,114	1,337
Louisiana	6,479	8,563	9,690	11,359	14,464	16,190	12,763
Oklahoma	5,800	7,447	8,168	9,769	14,417	16,419	16,994
Texas	18,612	23,748	23,417	26,184	35,650	37,724	39,575
Mountain	7,896	10,352	11,425	14,189	19,472	20,914	23,212
Arizona	1	8	4	1	1	1	0
Colorado	466	701	861	1,380	2,574	2,997	3,988
Idaho	0	0	0	0	0	0	0
Montana	999	784	739	1,235	1,881	1,881	2,142
Nevada	0	0	0	0	0	0	0
New Mexico	6,047	8,010	8,848	10,352	13,598	14,571	14,968
Utah	35	148	173	271	283	200	226
Wyoming	350	701	800	950	1,236	1,264	1,888
Pacific	654	1,044	1,031	1,646	1,180	1,201	1,274
Alaska	2	31	51	61	58	71	120
California	652	1,033	980	1,585	1,117	1,125	1,154
Hawaii	0	0	0	0	0	0	0
Oregon	0	0	0	0	5	5	0
Washington	0	0	0	0	0	0	0
Other States	0	0	0	0	0	0	55
Federal Waters	b	b	b	b	b	b	3,907

a. Data pertain only to dry gas and condensate wells. Data as of December 31.

b. "Federal Waters" is included in Texas, Louisiana, and California totals.

p—Preliminary.

R—Revised.

Source: Preliminary numbers taken from *World Oil*, February 15, 1982. Revised numbers taken from Energy Information Administration, U.S. Department of Energy, *Natural Gas Annual*, 1980.

SUPPLY

TABLE 28
NEW GAS WELL COMPLETIONS, BY STATE, 1955-1981^a

Division and State	1955	1960	1965	1970	1975	1979	1980	1981
United States	3,613	3,952	4,724	3,840	7,580	14,681	15,730	17,894
New England	0	0	0	0	0	0	0	0
Middle Atlantic	293	297	304	267	876	1,346	1,459	2,116
New Jersey	0	0	0	0	0	0	0	0
New York	2	28	18	17	236	302	360	439
Pennsylvania	291	269	286	250	540	1,044	1,099	1,677
East North Central	307	306	317	711	610	2,088	2,021	2,902
Illinois	16	8	8	5	5	16	8	18
Indiana	22	12	10	4	17	28	46	31
Michigan	19	26	36	19	33	60	54	42
Ohio	250	260	263	683	555	1,984	1,913	2,811
Wisconsin	0	0	0	0	0	0	0	0
West North Central	366	202	207	111	440	804	607	664
Iowa	0	0	0	0	0	0	0	0
Kansas	362	200	206	108	438	748	573	616
Minnesota	0	0	0	0	0	0	0	0
Missouri	4 ^b	0	0	0	1	4	1	3
Nebraska	0	2	1	2	1	25	14	8
North Dakota	0	0	0	1	0	19	15	19
South Dakota	0	0	0	0	0	8	4	18
South Atlantic	443	694	697	553	582	1,211	1,420	1,485
Delaware	0	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0	0
Georgia	0	0	0	0	0	0	0	0
Maryland	0	0	1	0	0	0	0	0
North Carolina	0	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0	0
Virginia	0	8	1	0	26	18	9	29
West Virginia	443	686	695	553	556	1,193	1,411	1,456
East South Central	164	275	195	132	218	406	413	426
Alabama	0	0	0	5	26	80	61	49
Kentucky	162	264	177	111	123	141	126	163
Mississippi	1	9	15	12	31	51	58	90
Tennessee	1	2	3	4	38	134	168	124
West South Central	1,254	1,484	2,478	1,670	3,611	6,979	7,647	7,820
Arkansas	10	36	44	36	23	82	121	153
Louisiana	282	282	542	539	815	1,520	1,779	1,678
Oklahoma	359	434	549	321	638	1,768	2,063	2,182
Texas	603	732	1,343	774	2,135	3,609	3,684	3,807
Mountain	722	577	451	335	1,193	1,793	2,081	2,382
Arizona	1	1	0	0	0	0	0	0
Colorado	84	116	53	47	300	399	481	583
Idaho	1	0	0	0	0	0	0	0
Montana	16	8	10	74	279	247	252	223
Nevada	0	0	0	0	0	0	0	1
New Mexico	564	374	303	159	517	820	996	1,246
Utah	10	23	27	10	19	103	98	116
Wyoming	46	55	58	45	78	224	254	213
Pacific	64	117	75	61	50	54	82	99
Alaska	0	3	13	5	4	4	3	4
California	64	114	62	56	46	45	77	92
Hawaii	0	0	0	0	0	0	0	0
Oregon	0	0	0	0	0	5	2	3
Washington	0	0	0	0	0	0	0	0
Federal Waters	0	0	0	0	0	0	0	0

a. Includes condensate wells for all years except 1960.

b. Nebraska included in Missouri.

Source: American Petroleum Institute, *Quarterly Review of Drilling Statistics*, Fourth Quarter 1981.

GAS FACTS

TABLE 29
NEW-FIELD WILDCAT WELLS DRILLED AND PROPORTION SUCCESSFUL,
1955-1981

Year	Total Drilled	Dry	Productive	Percent Productive
1955	8,104	7,186	918	11.3
1960	7,320	6,575	745	10.2
1961	6,909	6,164	745	10.8
1962	6,794	6,007	787	11.6
1963	6,570	5,801	769	11.7
1964	6,632	5,931	701	10.6
1965	6,182	5,544	638	10.3
1966	6,158	5,523	635	10.3
1967	5,271	4,727	544	10.3
1968	5,205	4,763	442	8.5
1969	5,956	5,421	535	9.0
1970	5,069	4,576	493	9.7
1971	4,463	4,027	436	9.7
1972	5,086	4,520	566	11.1
1973	4,989	4,288	701	14.1
1974	5,652	4,847	805	14.2
1975	6,104	5,228	876	14.4
1976	5,840	4,854	986	16.9
1977	6,101	5,097	1,004	16.5
1978	6,505	5,522	983	15.1
1979	6,413	5,251	1,162	18.1
1980	7,034	5,694	1,340	19.0
1981	8,052	6,629	1,423	17.7

Source: American Petroleum Institute. *Quarterly Review of Drilling Statistics*, Fourth Quarter 1981.

TABLE 30
NEW WELL COMPLETIONS, BY TYPE OF WELL, 1955-1981

Year	Total ^a	Oil	Condensate	Gas	Service ^a	Dry
1955	56,682	31,567	b	3,613	/60	20,742
1960	46,751	21,186	1,306	3,952	2,733	17,574
1961	46,962	21,101	749	4,915	3,091	17,106
1962	46,179	21,249	123	5,725	2,400	16,682
1963	43,653	20,288	b	4,751	2,267	16,347
1964	45,236	20,620	b	4,855	2,273	17,488
1965	41,432	18,761	b	4,724	1,922	16,025
1966	37,881	16,447	b	4,167	1,497	15,770
1967	33,630	15,329	b	3,659	1,396	13,246
1968	32,038	14,331	b	3,456	1,439	12,812
1969	33,677	14,368	b	4,083	1,490	13,736
1970	29,341	13,020	b	3,840	1,221	11,260
1971	27,250	11,858	b	3,830	1,399	10,163
1972	28,725	11,306	b	4,928	1,434	11,057
1973	27,551	9,902	b	6,385	959	10,305
1974	32,756	12,784	b	7,240	1,058	11,674
1975	38,732	16,408	b	7,580	1,497	13,247
1976	41,305	17,059	b	9,085	1,540	13,621
1977	46,328	18,912	b	11,378	1,346	14,692
1978	48,434	17,775	b	13,064	1,377	16,218
1979	51,203	19,383	b	14,681	1,387	15,752
1980	62,427	27,026	b	15,730	1,582	18,089
1981	80,408	37,671	b	17,894	1,870	22,973

a. Excludes stratigraphic and core tests.

b. Included with oil prior to 1956 and with gas after 1962.

Source: *Oil and Gas Journal* prior to 1968. American Petroleum Institute. *Quarterly Review of Drilling Statistics*, Fourth Quarter 1981.

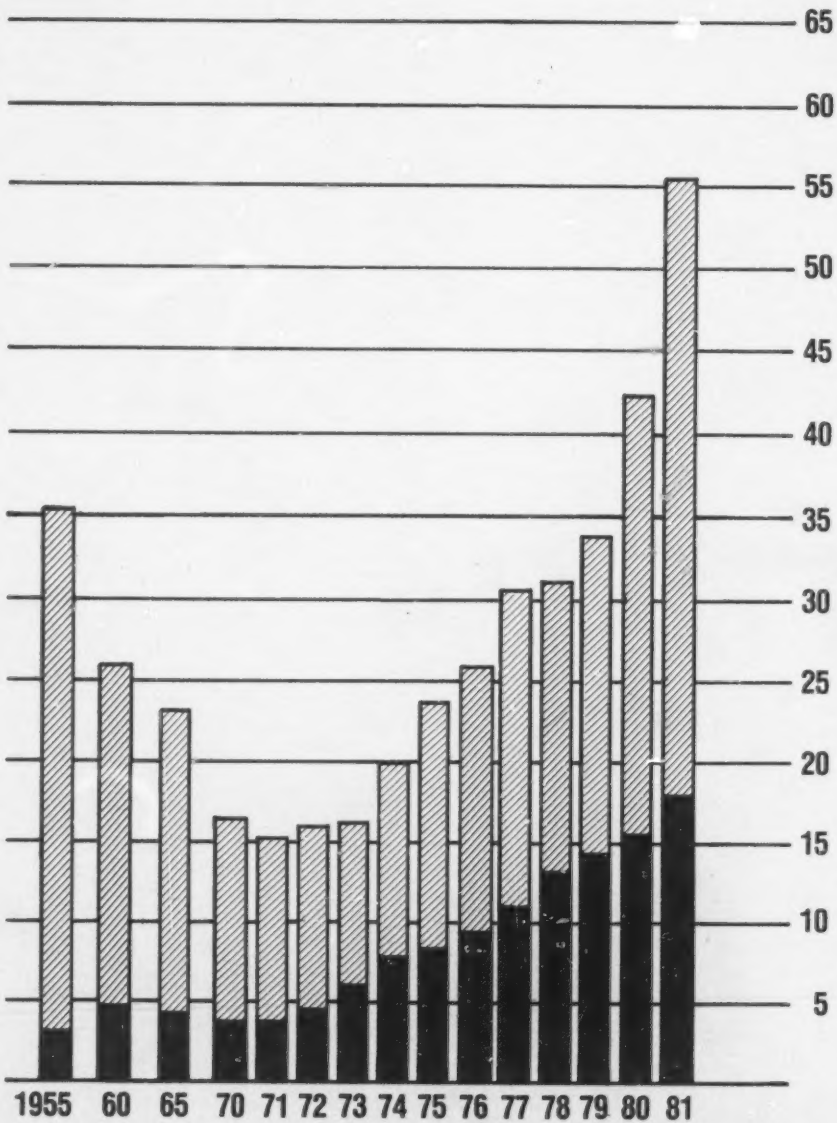
SUPPLY

CHART 7

TOTAL GAS AND OIL NEW WELL COMPLETIONS

 OIL
 GAS

THOUSANDS



REFERENCE: TABLE 30

GAS FACTS

TABLE 31
NEW WELL COMPLETIONS, BY TYPE OF WELL AND STATE, 1981

Division and State	Total*	Oil	Gas	Service*	Dry
United States	80,408	37,671	17,894	1,870	22,973
New England	6	0	0	0	0
Connecticut	0	0	0	0	0
Maine	0	0	0	0	0
Massachusetts	0	0	0	0	0
New Hampshire	0	0	0	0	0
Rhode Island	0	0	0	0	0
Vermont	0	0	0	0	0
Middle Atlantic	4,133	1,757	2,116	137	123
New Jersey	0	0	0	0	0
New York	579	99	439	6	35
Pennsylvania	3,554	1,658	1,677	131	88
East North Central	10,331	4,753	2,902	195	2,481
Illinois	3,282	1,817	18	142	1,305
Indiana	831	361	31	22	417
Michigan	766	257	42	21	446
Ohio	5,452	2,318	2,811	10	313
Wisconsin	0	0	0	0	0
West North Central	8,413	3,793	664	132	3,824
Iowa	0	0	0	0	0
Kansas	6,865	3,090	616	122	3,037
Minnesota	0	0	0	0	0
Missouri	119	60	3	6	50
Nebraska	607	247	8	2	350
North Dakota	743	375	19	2	347
South Dakota	79	21	18	0	40
South Atlantic	1,945	199	1,485	57	204
Delaware	0	0	0	0	0
District of Columbia	0	0	0	0	0
Florida	23	7	0	2	14
Georgia	3	0	0	0	3
Maryland	0	0	0	0	0
North Carolina	0	0	0	0	0
South Carolina	0	0	0	0	0
Virginia	41	5	29	0	7
West Virginia	1,878	187	1,456	55	180
East South Central	3,065	1,013	426	93	1,533
Alabama	212	39	49	3	121
Kentucky	1,780	696	163	85	836
Mississippi	758	166	90	5	497
Tennessee	315	112	124	0	79
West South Central	41,726	21,327	7,820	602	11,977
Arkansas	887	348	153	12	374
Louisiana	5,573	1,635	1,678	194	2,066
Oklahoma	11,328	6,292	2,182	28	2,826
Texas	23,938	13,052	3,807	368	6,711
Mountain	7,384	2,524	2,382	128	2,350
Arizona	7	0	0	1	6
Colorado	1,707	453	583	6	665
Idaho	5	0	0	0	5
Montana	1,064	366	223	4	471
Nevada	24	1	1	3	19
New Mexico	2,451	824	1,246	80	301
Utah	421	147	116	2	156
Wyoming	1,705	733	213	32	727
Pacific	3,382	2,301	99	526	456
Alaska	141	120	4	3	14
California	3,211	2,181	92	523	415
Hawaii	0	0	0	0	0
Oregon	30	0	3	0	27
Washington	0	0	0	0	0
Offshore Federal Waters	29	4	0	0	25

* Excludes stratigraphic and core tests, which totalled 129 in 1981.

Source: American Petroleum Institute, *Quarterly Review of Drilling Statistics*, Fourth Quarter 1981.

SUPPLY

TABLE 32
HOLES DRILLED AND PROPORTION SUCCESSFUL, BY TYPE OF EXPLORATORY HOLE,
1955-1981

	Outposts- Extensions	New-Pool Wildcats	Deeper-Pool Tests	Shallower-Pool Tests	New-Field Wildcats	Total
1955						
Drilled	3,204	2,931	465	233	8,104	14,937
Dry	2,086	2,219	279	62	7,186	11,832
Productive	1,118	712	186	171	918	3,105
Percent Productive	34.9	24.3	40.0	73.4	11.3	20.8
1960						
Drilled	2,431	1,342	495	116	7,320	11,704
Dry	1,603	1,000	309	28	6,575	9,515
Productive	828	342	186	88	745	2,189
Percent Productive	34.1	25.5	37.6	75.9	10.2	18.7
1965						
Drilled	1,131	1,707	353	93	6,182	9,466
Dry	805	1,374	242	40	5,544	8,005
Productive	326	333	111	53	638	1,461
Percent Productive	28.8	19.5	31.4	57.0	10.3	15.4
1970						
Drilled	1,228	1,043	260	93	5,069	7,693
Dry	832	808	167	39	4,576	6,422
Productive	396	235	93	54	493	1,271
Percent Productive	32.2	22.5	35.8	58.1	9.7	16.5
1975						
Drilled	1,577	1,112	288	133	6,104	9,214
Dry	905	719	181	38	5,228	7,071
Productive	672	393	107	95	876	2,143
Percent Productive	42.6	35.3	37.2	71.4	14.4	23.3
1976						
Drilled	1,718	1,249	264	163	5,840	9,234
Dry	942	790	159	40	4,854	6,785
Productive	776	459	105	123	986	2,449
Percent Productive	45.2	36.7	39.8	75.5	16.9	26.5
1977						
Drilled	1,914	1,376	366	204	6,101	9,961
Dry	1,040	870	236	32	5,097	7,275
Productive	874	506	130	172	1,004	2,686
Percent Productive	45.7	36.8	35.5	84.3	16.5	27.0
1978						
Drilled	2,024	1,549	380	219	6,505	10,677
Dry	1,180	958	247	42	5,522	7,949
Productive	844	591	133	177	983	2,728
Percent Productive	41.7	38.2	35.0	80.8	15.1	25.6
1979						
Drilled	1,853	1,486	486	246	6,374	10,445
Dry	1,003	841	304	61	5,212	7,421
Productive	850	645	182	185	1,162	3,024
Percent Productive	45.9	43.4	37.5	75.2	18.2	29.0
1980						
Drilled	1,981	1,819	789	293	7,034	11,916
Dry	1,104	952	523	69	5,694	8,342
Productive	877	867	266	224	1,340	3,574
Percent Productive	44.3	47.7	33.7	76.4	19.1	30.0
1981						
Drilled	3,028	2,340	1,299	449	3,052	15,168
Dry	1,541	1,353	907	153	6,629	10,583
Productive	1,487	987	392	296	1,423	4,585
Percent Productive	49.1	42.2	30.2	65.9	17.7	30.2

Source: Committee on Statistics of Drilling. *American Association of Petroleum Geologists Bulletin*, 1981.

GAS FACTS

TABLE 33
WELLS AND DRY HOLES DRILLED AS EXPLORATORY TESTS,
BY STATE AND TYPE OF WELL, 1981

Division and State	Total Drilled	Dry Holes	Producers		
			Total	Oil	Gas
United States	15,168	10,583	4,585	2,219	2,366
New England	0	0	0	0	0
Connecticut	0	0	0	0	0
Maine	0	0	0	0	0
Massachusetts	0	0	0	0	0
New Hampshire	0	0	0	0	0
Rhode Island	0	0	0	0	0
Vermont	0	0	0	0	0
Middle Atlantic	513	53	460	22	438
New Jersey	0	0	0	0	0
New York	108	29	79	0	79
Pennsylvania	405	24	381	22	359
East North Central	1,494	1,140	354	264	90
Illinois	663	525	138	136	2
Indiana	348	278	70	64	6
Michigan	381	316	65	47	18
Ohio	102	21	81	17	64
Wisconsin	0	0	0	0	0
West North Central	2,208	1,717	491	388	103
Iowa	0	0	0	0	0
Kansas	1,492	1,177	315	232	83
Minnesota	0	0	0	0	0
Missouri	263	212	51	44	7
Nebraska	377	268	109	101	8
North Dakota	42	36	6	2	4
South Dakota	34	24	10	9	1
South Atlantic	170	55	115	6	109
Delaware	0	0	0	0	0
District of Columbia	0	0	0	0	0
Florida	9	9	0	0	0
Georgia	3	3	0	0	0
Maryland	0	0	0	0	0
North Carolina	0	0	0	0	0
South Carolina	0	0	0	0	0
Virginia	3	3	0	0	0
West Virginia	155	40	115	6	109
East South Central	1,114	806	308	171	137
Alabama	76	62	14	4	10
Kentucky	508	385	123	95	28
Mississippi	342	297	45	25	20
Tennessee	188	62	126	47	79
West South Central	6,863	4,864	1,999	879	1,120
Arkansas	153	136	17	10	7
Louisiana	957	837	120	43	77
Oklahoma	651	404	247	134	113
Texas	5,102	3,487	1,615	692	923
Mountain	2,242	1,555	687	382	305
Arizona	6	6	0	0	0
Colorado	737	493	244	132	112
Idaho	5	5	0	0	0
Montana	432	321	111	72	39
Nevada	20	19	1	0	1
New Mexico	294	137	157	72	85
Utah	173	120	53	26	27
Wyoming	575	454	121	80	41
Pacific	542	371	171	107	64
Alaska	20	13	7	4	3
California	492	331	161	103	58
Hawaii	0	0	0	0	0
Oregon	30	27	3	0	3
Washington	0	0	0	0	0
Offshore Federal Waters	22	22	0	0	0

Source: American Petroleum Institute. *Quarterly Review of Drilling Statistics*, Fourth Quarter 1981.

SUPPLY

TABLE 34
DRILLING OPERATIONS AND EXPENDITURES,
BY TYPE OF WELL, 1979-1980^a

	Total	Oil	Gas ^b	Dry
1979				
Wells drilled	48,523	19,243	14,079	15,201
Footage drilled (000)	237,512	80,261	77,340	79,911
Expenditures (000)	\$16,078,930	\$4,678,560	\$6,238,126	\$5,162,244
Average depth per well (ft)	4,894	4,170	5,493	5,256
Average cost per well	\$ 331,367	\$ 243,130	\$ 443,080	\$ 339,598
Average cost per foot	\$ 67.70	\$ 58.29	\$ 80.66	\$ 64.60
1980				
Wells drilled	62,011	28,553	15,225	18,233
Footage drilled (000)	296,031	117,066	85,820	93,145
Expenditures (000)	\$22,800,356	\$7,768,437	\$8,166,723	\$6,865,196
Average depth per well (ft)	4,773	4,099	5,636	5,108
Average cost per well	\$ 367,682	\$ 272,070	\$ 536,402	\$ 376,525
Average cost per foot	\$ 77.02	\$ 66.36	\$ 95.16	\$ 73.70

a. Includes all charges for drilling and equipping wells up to and including the "Christmas" trees, but excludes exploration, development and production costs and expenditures for service wells.

b. Includes condensate wells.

Source: American Petroleum Institute, *Joint Association Survey on Drilling Costs*, December 1981.

TABLE 35
OFFSHORE DRILLING OPERATIONS AND EXPENDITURES,
BY TYPE OF WELL, 1979-1980^a

	Total	Oil	Gas ^b	Dry
1979				
Wells drilled	1,260	349	453	458
Footage drilled (000)	12,392	3,240	4,606	4,545
Expenditures (000)	\$3,207,031	\$ 694,803	\$1,227,705	\$1,284,522
Average depth per well (ft)	9,835	9,283	10,169	9,925
Average cost per well	\$2,545,263	\$1,990,841	\$2,710,167	\$2,804,634
Average cost per foot	\$ 258.78	\$ 214.44	\$ 266.50	\$ 282.57
1980				
Wells drilled	1,272	317	444	511
Footage drilled (000)	12,503	2,838	4,419	5,246
Expenditures (000)	\$3,846,299	\$ 844,307	\$1,445,738	\$1,556,254
Average depth per well (ft)	9,829	8,952	9,952	10,246
Average cost per well	\$3,023,819	\$2,663,428	\$3,256,166	\$3,045,507
Average cost per foot	\$ 307.62	\$ 297.50	\$ 327.18	\$ 296.63

a. Includes all charges for drilling and equipping wells up to and including the "Christmas" trees, but excludes exploration, development and production costs and expenditures for service wells.

b. Includes condensate wells.

Source: American Petroleum Institute, *Joint Association Survey on Drilling Costs*, December 1981.

GAS FACTS

TABLE 36
AVERAGE COST PER FOOT BY TYPE OF WELL,
BY DEPTH CLASSES, 1976-1980^a

Depth Range (in feet)	Total	Oil	Gas	Dry
1976				
0- 1,249	\$ 22.84	\$ 24.84	\$ 28.80	\$ 15.52
1,250- 2,499	21.26	23.58	22.65	16.07
2,500- 3,749	22.90	26.09	26.25	16.02
3,750- 4,999	22.04	26.74	23.83	16.14
5,000- 7,499	29.40	32.79	32.65	23.36
7,500- 9,999	42.89	43.08	46.46	40.29
10,000-12,499	64.29	68.56	70.01	57.47
12,500-14,999	86.00	92.47	90.91	79.23
15,000-17,499	108.36	126.25	116.91	96.68
17,500-19,999	129.90	136.54	134.79	122.48
20,000 and over	183.61	163.43	188.01	178.77
1977				
0- 1,249	\$ 26.14	\$ 26.79	\$ 28.23	\$ 23.35
1,250- 2,499	23.66	26.00	25.11	18.07
2,500- 3,749	24.69	26.94	29.81	17.00
3,750- 4,999	24.79	29.10	27.73	18.57
5,000- 7,499	33.13	36.01	38.79	25.56
7,500- 9,999	51.18	49.14	58.30	47.56
10,000-12,499	72.03	76.01	81.56	61.30
12,500-14,999	104.56	98.39	107.58	104.19
15,000-17,499	131.14	154.72	134.41	122.30
17,500-19,999	148.16	142.85	156.90	139.24
20,000 and over	193.26	186.16	190.92	197.42
1978				
0- 1,249	\$ 27.92	\$ 30.22	\$ 26.00	\$ 23.65
1,250- 2,499	28.02	30.20	30.53	22.07
2,500- 3,749	28.08	30.75	33.32	19.65
3,750- 4,999	28.54	33.24	32.46	20.80
5,000- 7,499	37.86	42.16	42.49	30.01
7,500- 9,999	59.33	56.16	72.68	51.69
10,000-12,499	91.15	96.61	98.09	81.98
12,500-14,999	118.11	122.35	128.22	107.50
15,000-17,499	150.87	179.18	153.74	140.37
17,500-19,999	195.17	259.96	179.93	201.69
20,000 and over	247.14	184.73	268.66	226.39
1979				
0- 1,249	\$ 31.84	\$ 33.31	\$ 31.52	\$ 28.44
1,250- 2,499	31.86	35.78	32.01	25.19
2,500- 3,749	31.02	34.50	33.64	23.71
3,750- 4,999	32.26	37.68	34.27	25.02
5,000- 7,499	43.81	48.57	48.23	34.97
7,500- 9,999	69.98	67.09	83.64	60.10
10,000-12,499	106.12	112.48	114.04	94.01
12,500-14,999	139.26	145.70	150.77	125.12
15,000-17,499	191.82	186.10	196.77	187.71
17,500-19,999	240.59	140.99	237.83	245.15
20,000 and over	378.62	220.84	382.45	399.21
1980				
0- 1,249	\$ 35.62	\$ 37.13	\$ 35.61	\$ 30.89
1,250- 2,499	36.04	40.11	35.04	28.73
2,500- 3,749	36.82	41.31	41.00	26.37
3,750- 4,999	38.40	44.65	41.09	28.39
5,000- 7,499	51.18	56.22	56.73	40.23
7,500- 9,999	77.09	76.70	89.68	65.71
10,000-12,499	121.97	126.20	129.45	110.52
12,500-14,999	170.50	167.77	179.17	163.04
15,000-17,499	237.23	258.21	233.38	236.34
17,500-19,999	285.63	406.31	300.57	258.49
20,000 and over	396.84	b	396.20	397.63

a. Includes all charges for drilling and equipment wells up to and including the "Christmas" trees but excludes exploration, development and production costs and expenditures for service wells.

b. No data reported.

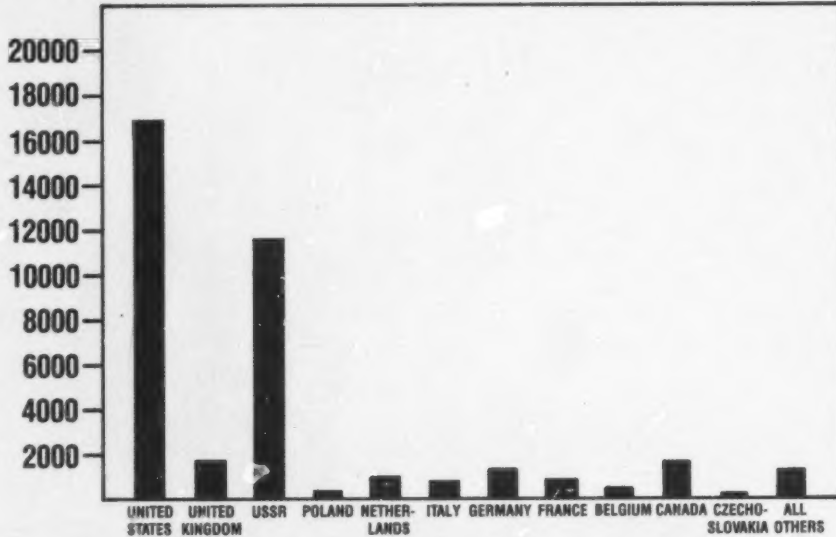
Source: American Petroleum Institute, *Joint Association Survey on Drilling Costs*, December 1981.

SUPPLY

CHART 8

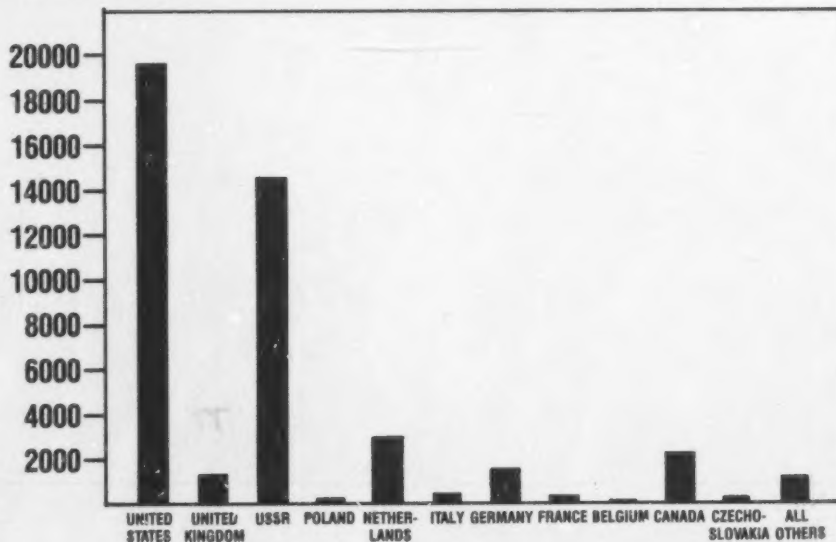
WORLD NATURAL GAS DIRECT FUEL USE* 1980

(TRILLIONS OF BTU)



WORLD NATURAL GAS PRODUCTION 1980

(TRILLIONS OF BTU)



*SEE TABLE 37 FOR DEFINITION

GAS FACTS

TABLE 37
WORLD NATURAL GAS STATISTICS
1980

Country	Production	Imports	Exports	Direct Fuel Use ^a	Residential Consumers (000)	Miles of Pipeline (000)
	(Trillions of Btu)					
United States ^b	19,712	1,016	56	16,968	41,835 ^e	939 ^e
United Kingdom	1,369	397	—	1,742	15,080	142
USSR	14,417	—	—	11,377	23,042	166
Poland	183	161	—	248	2,031	19 ^d
Netherlands	3,040	126	1,824	1,015	4,400	58
Italy	453	519	—	804	7,250 ^f	42 ^f
Germany	733	1,636	95	1,357	11,073 ^d	112
France	274	718	6	812	8,250	69
Belgium	1	411	19	313	1,806	18
Canada	2,904 ^c	8	1,001 ^d	1,691	2,400 ^e	82 ^e
Czechoslovakia	20	270	—	141	2,095	15
Others	1,403	660	987	1,217	6,562	50

a. Does not include supplies for production of electric energy; for cracking, reforming and mixing processes; for raw material; for manufacturing of non-energy products.

b. Does not cross-check with other data in this publication due to different source.

c. 1979, Revised.

d. 1979.

e. 1978, Revised.

f. 1978.

g. Less than 0.1 Trillion Btu.

Source: Annual Bulletin of Gas Statistics for Europe, United Nations, 1980.

SUPPLY

TABLE 38
WORLD WELL COMPLETIONS
1980

Area	Oil	Gas	Dry	Service	Suspended	Total Wells	Total Footage
North America	31,033	18,727	19,134	1,723	4,106	74,723	345,681,276
South America	2,462	83	473	273	496	3,787	19,752,687
Far East	522	143	253	29	20	3,003 ^b	20,099,753
Western Europe	303	112	168	70	110	763	6,174,129
Middle East	412	23	127	159	36	757	4,819,583
Africa	410	126	177	60	83	856	7,128,724
Oceania	31	24	57	1	2	115	783,315
World Total ^a	35,173	19,238	20,389	2,315	4,853	84,004 ^c	404,439,467

a. No drilling data available for Eastern Europe.

b. Total does not add due to inclusion of 2,036 total wells from China.

c. Total does not add due to inclusion of total wells from China.

Source: *World Oil*, August 15, 1981.

WORLD WELL COMPLETIONS
1981

Area	Oil	Gas	Dry	Service	Suspended	Total Wells	Total Footage
North America	39,947	18,533	24,689	3,850	1,226	88,245	404,837,245
South America	2,360	90	520	438	703	4	21,040,480
Far East	2,608	310	264	474	92	4	26,573,793
Western Europe	400	167	341	81	104	1,093	8,252,936
Middle East	335	17	63	212	62	771 ^c	4,941,805
Africa	559	76	208	61	44	948	7,510,350
Oceania	38	56	100	0	6	200	1,503,470
World Total ^a	46,247	19,249	26,185	5,116	2,237	99,434 ^d	474,660,077

a. No drilling data available for Eastern Europe.

b. Total does not add due to inclusion of 318 total wells from China.

c. Total does not add due to inclusion of 82 total wells from Syria.

d. Total does not add due to inclusion of total wells from China and Syria.

Source: *World Oil*, August 15, 1982.

SECTION IV

UNDERGROUND GAS STORAGE

	<u>1981</u>	<u>% Change 81/80</u>
Number of Pools	393	- 2.0
Est. Ultimate Capacity (Millions of cubic feet)	7,580,802	+ 1.2
Input to Storage (Millions of cubic feet)	2,122,755	+ 3.2
Output from Storage (Millions of cubic feet)	1,865,438	- 11.8
Maximum Day Output (Millions of cubic feet)	36,462	- 4.4

GAS FACTS

TABLE 39
NUMBER OF UNDERGROUND STORAGE POOLS AND ULTIMATE CAPACITY IN
THE UNITED STATES, 1955-1981

Year	Number of Pools	Number of States	Est. Ultimate Capacity (bill. cu. ft.)*
1955	178	18	2,084
1960	217	20	2,854
1965	293	24	4,086
1966	303	25	4,421
1967	308	25	4,520
1968	315	26	4,783
1969	320	26	4,927
1970	325	26	5,178
1971	333	26	5,575
1972	348	26	6,040
1973	360	26	6,279
1974	367	26	6,360
1975	376	26	6,644
1976	386	26	6,927
1977	385	26	7,223
1978	388	26	7,330
1979	399	26	7,437
1980	401	26	7,488
1981	393	26	7,581

*At 14.73 psia and 60°F.

Source: A.G.A. *The Underground Storage of Gas in the United States and Canada*, December 31, 1981.

UNDERGROUND STORAGE

TABLE 40
NUMBER OF AQUIFER POOLS AND ULTIMATE CAPACITY IN
THE UNITED STATES, 1955-1981^a

Year	Number of Pools	Number of States	Est. Ultimate Capacity (bill. cu. ft.) ^b
1955	5	4	c
1960	14	8	c
1965	37	9	643
1966	37	9	647
1967	37	9	672
1968	40	10	759
1969	43	10	818
1970	43	9	968
1971	44	8	1,056
1972	46	9	1,278
1973	49	10	1,399
1974	51	10	1,406
1975	52	10	1,459
1976	52	10	1,484
1977	52	10	1,578
1978	53	10	1,593
1979	54	10	1,601
1980	57	10	1,449
1981	56	10	1,423

a. These data are also in Table 39.

b. At 14.73 psia and 60°F.

c. Not available.

Source: Same as Table 39.

TABLE 41
LIQUEFIED NATURAL GAS STORAGE OPERATIONS IN THE UNITED STATES
AS OF SEPTEMBER 15, 1981^c

	Presently Operating	Proposed or Pending Operation
Complete Plants		
Storage Capacity—MMcf	61,755	9,000
Gross Liquefaction Capacity—MMcf/day	315	43
Sendout Capacity—MMcf/day	7,950	757
Number of Facilities	51	3
Satellite Plants		
Storage Capacity—MMcf	6,846	a
Sendout Capacity—MMcf/day	887	a
Number of Facilities	50	a
Import Terminals^b		
Storage Capacity—MMcf	20,250	12,579
Sendout Capacity—MMcf/day	2,875	2,324
Number of Facilities	5	2

a. All plants presently operating.

b. Of those presently operating, Algonquin terminal has been utilized for domestic storage since 1973.

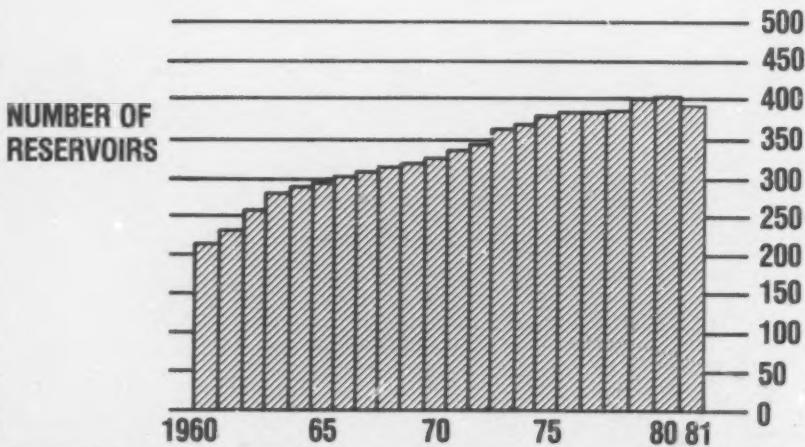
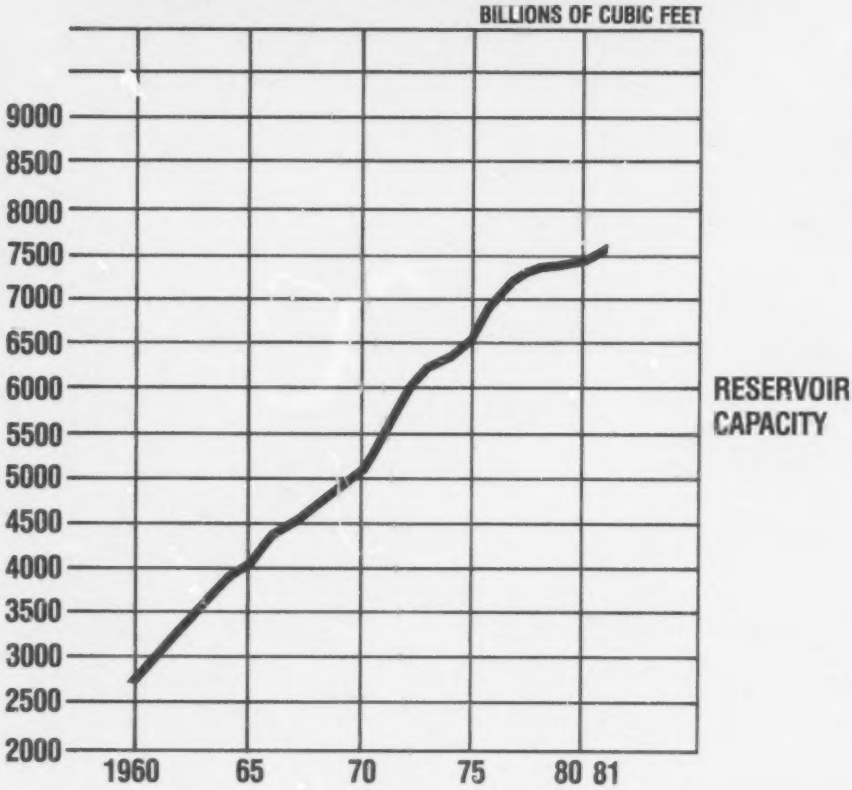
c. Not underground storage.

Source: *Pipeline and Gas Journal*, November, 1981.

GAS FACTS

CHART 9

NUMBER AND CAPACITY OF EXISTING UNDERGROUND STORAGE RESERVOIRS



REFERENCE: TABLE 39

UNDERGROUND STORAGE

TABLE 42
INPUTS, OUTPUTS, AND GAS IN UNDERGROUND STORAGE,
BY STATE, 1981

(Millions of cubic feet—14.73 psia at 60°F.)

Division and State	Year Ending December 31, 1981					
	Input to Storage	Output from Storage	Native Gas	Stored Gas	Maximum Stored Gas	Maximum Day Output
United States*	2,122,755	1,865,438	1,091,914	5,234,673	5,632,610	36,462
New England	0	0	0	0	0	0
Connecticut	0	0	0	0	0	0
Maine	0	0	0	0	0	0
Massachusetts	0	0	0	0	0	0
New Hampshire	0	0	0	0	0	0
Rhode Island	0	0	0	0	0	0
Vermont	0	0	0	0	0	0
Middle Atlantic	400,352	343,006	43,834	727,700	865,948	4,109
New Jersey	0	0	0	0	0	0
New York	59,296	42,739	15,129	123,651	133,492	721
Pennsylvania	341,056	300,267	28,705	604,047	673,456	3,388
East North Central	730,661	736,115	389,247	1,889,728	2,073,048	13,116
Illinois	145,720	174,857	11,508	824,778	893,148	4,479
Indiana	23,775	23,839	20,622	87,609	92,529	461
Michigan	381,463	372,858	272,170	568,298	625,741	5,637
Ohio	179,703	164,561	84,947	409,043	461,630	2,539
Wisconsin	0	0	0	0	0	0
West North Central	112,843	106,664	42,806	444,746	485,531	2,399
Iowa	46,049	48,715	0	232,665	248,000	893
Kansas	53,739	52,176	19,814	113,486	138,368	932
Minnesota	1,125	477	0	5,729	5,732	38
Missouri	4,732	4,487	0	29,599	29,654	403
Nebraska	7,198	809	22,992	63,267	63,777	133
North Dakota	0	0	0	0	0	0
South Dakota	0	0	0	0	0	0
South Atlantic	167,657	156,633	66,212	441,687	462,314	3,471
Delaware	0	0	0	0	0	0
Dist. of Columbia	0	0	0	0	0	0
Florida	0	0	0	0	0	0
Georgia	0	0	0	0	0	0
Maryland	18,964	14,218	32,456	28,417	29,553	902
North Carolina	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0
Virginia	0	0	0	0	0	0
West Virginia	148,693	142,415	33,756	413,270	432,761	2,569
East South Central	110,345	99,234	107,327	180,883	211,801	1,935
Alabama	0	0	0	0	0	0
Kentucky	67,427	58,617	80,004	109,616	131,159	1,007
Mississippi	42,918	40,617	27,323	71,267	80,642	928
Tennessee	0	0	0	0	0	0
West South Central	425,669	272,720	202,026	961,292	1,013,561	6,278
Arkansas	1,698	1,299	25,311	10,414	10,710	74
Louisiana	220,352	115,590	74,463	401,301	420,995	2,801
Oklahoma	109,099	82,802	29,162	298,598	323,424	1,851
Texas	94,520	73,029	73,090	250,979	258,432	1,552
Mountain	71,163	47,865	87,368	281,035	295,858	1,032
Arizona	0	0	0	0	0	0
Colorado	24,287	24,809	19,129	47,931	55,776	603
Idaho	0	0	0	0	0	0
Montana	30,146	13,008	46,938	159,479	161,567	243
Nevada	0	0	0	0	0	0
New Mexico	2,856	4,920	0	16,120	19,227	51
Utah	1,179	1,053	0	4,759	4,759	22
Wyoming	12,695	4,075	21,301	52,746	54,529	113
Pacific	104,066	103,201	153,093	307,604	283,549	4,122
Alaska	0	0	0	0	0	0
California	92,985	91,958	153,093	274,943	250,659	3,830
Hawaii	0	0	0	0	0	0
Oregon	0	0	0	0	0	0
Washington	11,081	11,243	0	32,661	32,890	292

*Totals may not add due to rounding.

Source: Same as Table 39.

GAS FACTS

TABLE 43
NUMBER OF POOLS, WELLS, COMPRESSOR STATIONS, AND HORSEPOWER
IN UNDERGROUND STORAGE FIELDS, BY STATE, 1979-1981

Division and State	Number of Pools			Number of Active Wells		
	1979	1980	1981	1979	1980	1981
(1) United States	399	401	393	17,605	17,539	17,989
(2) New England	0	0	0	0	0	0
(3) Middle Atlantic	95	93	83	3,012	2,848	2,904
(4) New Jersey	0	0	0	0	0	0
(5) New York	20	20	21	926	767	820
(6) Pennsylvania	75	73	62	2,084	2,081	2,174
(7) East North Central	128	132	134	8,725	8,691	8,933
(8) Illinois	33	34	34	1,724	1,588	1,752
(9) Indiana	30	30	30	951	960	958
(10) Michigan	42	45	47	2,867	2,920	2,957
(11) Ohio	23	23	23	3,183	3,223	3,266
(12) Wisconsin	0	0	0	0	0	0
(13) West North Central	31	30	30	1,306	1,363	1,364
(14) Iowa	9	9	9	424	424	424
(15) Kansas	18	17	17	772	744	745
(16) Minnesota	1	1	1	61	61	61
(17) Missouri	1	1	1	82	82	82
(18) Nebraska	2	2	2	47	52	52
(19) North Dakota	0	0	0	0	0	0
(20) South Dakota	0	0	0	0	0	0
(21) South Atlantic	38	38	38	1,595	1,605	1,614
(22) Delaware	0	0	0	0	0	0
(23) District of Columbia	0	0	0	0	0	0
(24) Florida	0	0	0	0	0	0
(25) Georgia	0	0	0	0	0	0
(26) Maryland	1	1	1	79	80	82
(27) North Carolina	0	0	0	0	0	0
(28) South Carolina	0	0	0	0	0	0
(29) Virginia	0	0	0	0	0	0
(30) West Virginia	37	37	37	1,516	1,525	1,532
(31) East South Central	27	27	26	1,297	1,315	1,290
(32) Alabama	0	0	0	0	0	0
(33) Kentucky	23	23	22	1,197	1,214	1,189
(34) Mississippi	4	4	4	100	101	101
(35) Tennessee	0	0	0	0	0	0
(36) West South Central	43	44	46	750	851	921
(37) Arkansas	5	5	5	22	23	23
(38) Louisiana	6	7	8	191	272	331
(39) Oklahoma	14	14	14	281	300	300
(40) Texas	18	18	19	256	256	267
(41) Mountain	26	26	25	354	392	376
(42) Arizona	0	0	0	0	0	0
(43) Colorado	8	8	8	122	155	174
(44) Idaho	0	0	0	0	0	0
(45) Montana	5	5	5	137	139	139
(46) Nevada	0	0	0	0	0	0
(47) New Mexico	2	3	2	47	50	15
(48) Utah	2	2	2	15	15	15
(49) Wyoming	9	8	8	33	33	33
(50) Pacific	11	11	11	406	494	497
(51) Alaska	0	0	0	0	0	0
(52) California	9	9	9	409	417	420
(53) Hawaii	0	0	0	0	0	0
(54) Oregon	0	0	0	0	0	0
(55) Washington	2	2	2	77	77	77

Source: Same as Table 39.

UNDERGROUND STORAGE

TABLE 43 (Continued)
NUMBER OF POOLS, WELLS, COMPRESSOR STATIONS, AND HORSEPOWER
IN UNDERGROUND STORAGE FIELDS, BY STATE, 1979-1981

Number of Compressor Stations			Total HP Installed in Compressor Stations			
1979	1980	1981	1979	1980	1981	
283	285	294	1,804,552	1,559,708	1,614,998	(1)
0	0	0	0	0	0	(2)
62	62	60	256,670	239,950	248,645	(3)
0	0	0	0	0	0	(4)
13	12	13	30,450	17,990	26,850	(5)
49	50	47	226,220	221,960	221,795	(6)
86	87	92	883,261	632,661	638,276	(7)
27	28	29	217,795	220,125	217,070	(8)
19	17	17	19,651	19,551	19,551	(9)
22	24	28	566,480	313,650	322,020	(10)
18	18	18	79,335	79,335	79,635	(11)
0	0	0	0	0	0	(12)
18	17	19	81,810	77,315	79,295	(13)
4	4	4	41,680	37,680	37,860	(14)
10	9	11	19,930	19,435	19,425	(15)
1	1	1	2,400	2,400	2,400	(16)
1	1	1	8,850	8,850	8,850	(17)
2	2	2	8,950	8,950	10,750	(18)
0	0	0	0	0	0	(19)
0	0	0	0	0	0	(20)
22	20	20	92,760	91,410	91,310	(21)
0	0	0	0	0	0	(22)
0	0	0	0	0	0	(23)
0	0	0	0	0	0	(24)
0	0	0	0	0	0	(25)
1	1	1	11,000	11,000	11,000	(26)
0	0	0	0	0	0	(27)
0	0	0	0	0	0	(28)
0	0	0	0	0	0	(29)
21	19	19	81,760	80,410	80,310	(30)
20	20	20	72,010	74,260	74,260	(31)
0	0	0	0	0	0	(32)
17	17	17	36,210	38,460	38,460	(33)
3	3	3	35,800	35,800	35,800	(34)
0	0	0	0	0	0	(35)
41	43	46	227,944	252,124	288,124	(36)
5	5	6	1,470	1,470	1,470	(37)
6	7	8	93,640	109,040	137,040	(38)
10	11	11	73,219	80,569	80,569	(39)
20	20	21	59,615	61,045	69,045	(40)
23	25	26	62,867	64,758	67,858	(41)
0	0	0	0	0	0	(42)
7	6	7	29,025	28,950	30,950	(43)
0	0	0	0	0	0	(44)
5	6	6	23,150	23,440	23,440	(45)
0	0	0	0	0	0	(46)
1	4	4	800	3,350	3,350	(47)
2	2	2	1,200	1,200	1,200	(48)
8	7	7	8,692	7,818	8,918	(49)
11	11	11	127,230	127,230	127,230	(50)
0	0	0	0	0	0	(51)
10	10	10	115,430	115,430	115,430	(52)
0	0	0	0	0	0	(53)
0	0	0	0	0	0	(54)
1	1	1	11,800	11,800	11,800	(55)

GAS FACTS

TABLE 44
ULTIMATE CAPACITY OF EXISTING RESERVOIRS, BY STATE, 1981*

(Millions of cubic feet—14.73 psia at 60°F.)

Division and State	Cushion Gas			Working Gas	Ultimate Reservoir Capacity
	Native	Injected	Total		
United States^a	1,078,816	2,427,748	3,506,563	2,806,037	7,580,802
New England	0	0	0	0	0
Connecticut	0	0	0	0	0
Maine	0	0	0	0	0
Massachusetts	0	0	0	0	0
New Hampshire	0	0	0	0	0
Rhode Island	0	0	0	0	0
Vermont	0	0	0	0	0
Middle Atlantic	43,814	387,539	431,353	340,178	907,093
New Jersey	0	0	0	0	0
New York	15,129	75,256	90,385	48,414	169,124
Pennsylvania	28,685	312,283	340,968	291,764	737,969
East North Central	378,228	1,025,363	1,403,591	876,130	2,744,442
Illinois	11,369	548,482	559,851	276,435	919,580
Indiana	20,622	55,490	76,112	32,119	173,117
Michigan	261,290	155,249	416,539	424,675	1,032,141
Ohio	84,947	266,142	351,089	142,901	619,604
Wisconsin	0	0	0	0	0
West North Central	42,806	207,820	250,625	227,206	664,660
Iowa	0	117,751	117,751	114,914	354,500
Kansas	19,814	70,780	90,593	32,986	152,047
Minnesota	0	4,010	4,010	1,719	20,000
Missouri	0	11,759	11,759	17,840	45,000
Nebraska	22,992	3,520	26,512	59,747	93,113
North Dakota	0	0	0	0	0
South Dakota	0	0	0	0	0
South Atlantic	66,212	249,931	316,143	186,747	573,414
Delaware	0	0	0	0	0
Dist. of Col.	0	0	0	0	0
Florida	0	0	0	0	0
Georgia	0	0	0	0	0
Maryland	32,456	12,778	45,234	15,639	64,770
North Carolina	0	0	0	0	0
South Carolina	0	0	0	0	0
Virginia	0	0	0	0	0
West Virginia	33,756	237,153	270,909	171,108	508,644
East South Central	106,326	46,555	152,881	135,330	318,493
Alabama	0	0	0	0	0
Kentucky	79,003	27,788	106,791	82,830	210,134
Mississippi	27,323	18,767	46,090	52,500	108,359
Tennessee	0	0	0	0	0
West South Central	201,039	366,347	567,386	595,931	1,413,698
Arkansas	25,311	0	25,311	10,414	41,364
Louisiana	74,463	215,062	289,525	186,239	598,114
Oklahoma	29,162	132,915	162,077	165,683	398,441
Texas	72,103	18,370	90,473	233,595	375,779
Mountain	87,368	52,276	139,644	228,760	430,362
Arizona	0	0	0	0	0
Colorado	19,129	18,676	37,805	29,255	78,919
Idaho	0	0	0	0	0
Montana	46,938	15,200	62,138	144,279	222,135
Nevada	0	0	0	0	0
New Mexico	0	8,428	8,428	7,692	22,755
Utah	0	2,807	2,807	1,952	4,992
Wyoming	21,301	7,165	28,466	45,582	101,561
Pacific	153,022	91,918	244,940	215,757	528,639
Alaska	0	0	0	0	0
California	153,022	70,518	223,540	204,496	495,749
Hawaii	0	0	0	0	0
Oregon	0	0	0	0	0
Washington	0	21,400	21,400	11,261	32,890

*In some states or regions, the difference between the sum of the components and Ultimate Reservoir Capacity represents presently unused capacity.

a. Totals may not add due to rounding.

Source: Same as Table 39.

SECTION V

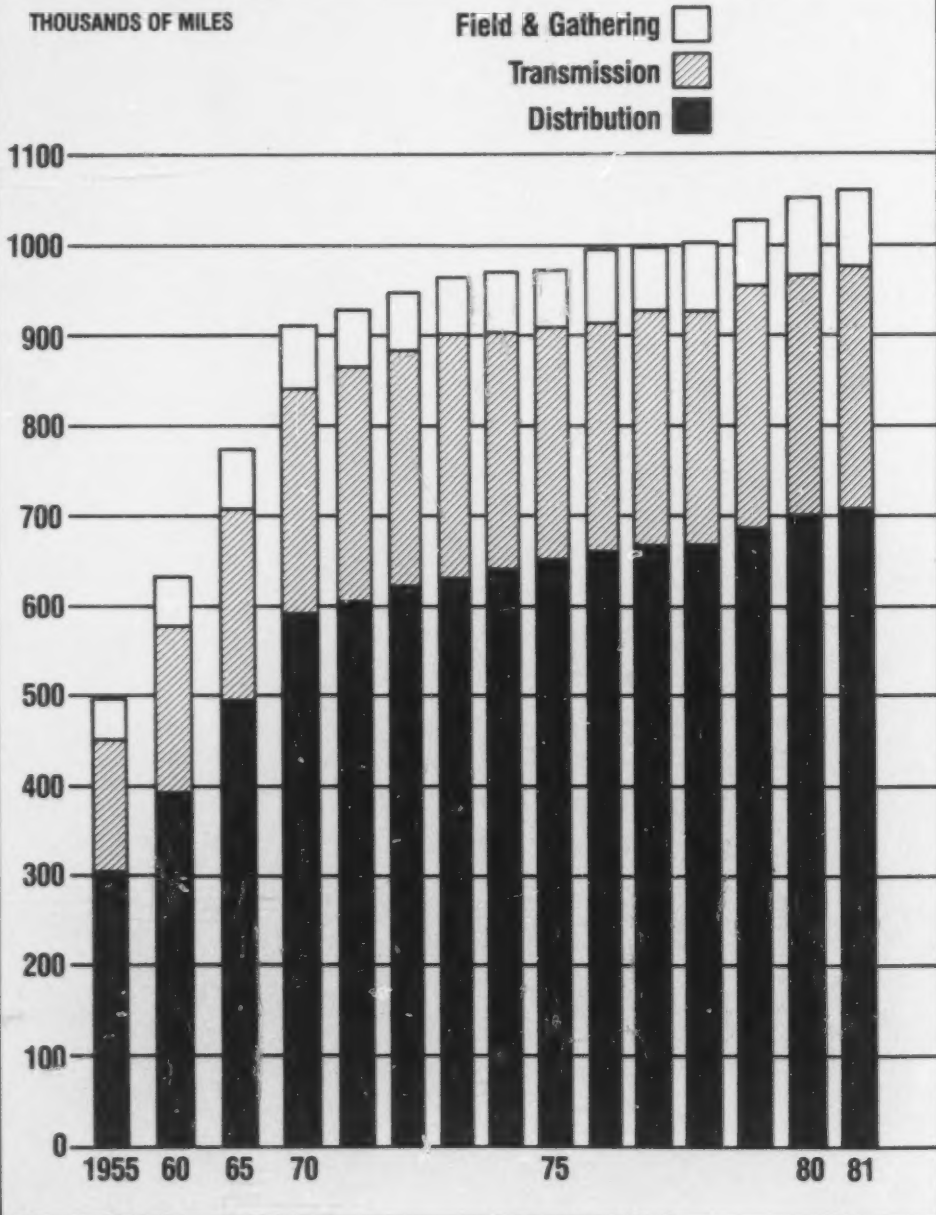
DISTRIBUTION AND TRANSMISSION

	<u>1981</u>	<u>% Change 81/80</u>
Miles of Pipeline		
(Thousands)		
• Total	1,064.2	+ 1.4
Field & Gathering	86.2	+ 3.6
Transmission	269.7	+ 1.1
Distribution	708.3	+ 1.2
 Miles Installed		
(Thousands)	20.6	+10.8

GAS FACTS

CHART 10

GAS UTILITY INDUSTRY MILES OF PIPELINE AND MAIN



REFERENCE: TABLE 40

DISTRIBUTION AND TRANSMISSION

TABLE 45
GAS UTILITY INDUSTRY INSTALLED
COMPRESSOR HORSEPOWER, 1960-1981

(Thousands)		
Year	Total	Transmission
1960	7,843	6,359
1961	8,169	6,696
1962	8,609	7,064
1963	8,818	7,261
1964	9,309	7,546
1965	9,708	7,736
1966	10,242	8,182
1967	10,746	8,596
1968	11,438	9,146
1969	12,742	9,375
1970	13,150	9,692
1971	14,142	10,763
1972	14,506	10,976
1973	14,858	11,272
1974	15,181	11,883*
1975	15,413	12,069
1976	15,472	12,046
1977	15,553	12,105
1978	15,824	12,255
1979	16,030	12,437
1980	16,359	12,818
1981	16,898	13,290

*Not comparable to previous years due to reclassification.

TABLE 46
GAS UTILITY INDUSTRY MILES OF PIPELINE AND MAIN,
BY TYPE, 1960-1981^a

(Thousands)				
Year	Total	Field and Gathering	Transmission Pipeline ^b	Distribution Main
1960	630.9	55.8	183.7	391.4
1961	659.0	56.7	191.9	410.4
1962	683.2	58.7	196.4	428.1
1963	709.9	60.7	200.9	448.3
1964	736.2	61.0	205.4	469.8
1965	767.5	61.7	211.3	494.5
1966	799.6	63.0	217.0	519.6
1967	828.3	63.7	225.4	539.2
1968	861.6	64.4	234.5	562.7
1969	891.6	64.9	248.1	578.6
1970	913.3	66.3	252.2	594.8
1971	931.4	66.2	254.8	610.4
1972	948.1	66.9	258.1	623.1
1973	962.9	65.9	263.1	633.8
1974	974.1	66.4	262.2	645.6
1975	979.3	68.5	262.6	648.2
1976	987.7	70.3	258.2	659.1
1977	998.9	71.5	260.5	666.9
1978	1013.0	74.9	260.6	677.5
1979	1029.8	77.8	263.5	688.5
1980 ^R	1049.9	83.2	266.7	700.0
1981	1064.2	86.2	269.7	708.3
Steel	909.2	85.2	264.5	559.5
Plastic ^c	92.3	0.4	4.4	87.5
Other	62.7	0.6	0.8	61.3

a. Includes data for Hawaii subsequent to 1959 and for Alaska subsequent to 1960; excludes service pipe. Data not adjusted to common diameter equivalent. Mileage shown as of end of each year.

b. Includes 5.0 thousand miles of Underground Storage pipe in 1975, 5.3 thousand miles in 1976, 5.2 thousand miles in 1977, 6.0 thousand miles in 1978, 5.7 thousand miles in 1979, 6.2 thousand miles in 1980, and 7.8 thousand miles in 1981, some of which was formerly included in Field and Gathering pipe.

c. Includes fiberglass. R-Revised

GAS FACTS

TABLE 47
GAS UTILITY INDUSTRY MILES OF PIPELINE AND MAIN,
BY TYPE AND BY STATE, 1981^a

Division and State	Total	Field and Gathering	Transmission Pipeline ^b	Distribution Main
United States	1,064,190	86,179	269,723	708,288
New England	28,093	0	1,655	26,438
Connecticut	6,798	0	514	6,284
Maine	389	0	80	309
Massachusetts	16,915	0	822	16,093
New Hampshire	1,162	0	131	1,031
Rhode Island	2,425	0	53	2,372
Vermont	404	0	55	349
Middle Atlantic	117,314	6,523	17,192	93,599
New Jersey	23,106	0	1,358	21,748
New York	41,681	530	3,954	37,197
Pennsylvania	52,527	5,993	11,880	34,654
East North Central	201,927	4,444	36,151	161,332
Illinois	53,501	137	9,726	43,638
Indiana	28,762	235	5,636	22,891
Michigan	44,486	238	7,445	36,803
Ohio	52,981	3,834	10,155	38,992
Wisconsin	22,197	0	3,189	19,008
West North Central	113,717	9,126	39,764	64,827
Iowa	18,042	88	6,008	11,946
Kansas	37,318	8,831	15,898	12,589
Minnesota	17,232	0	4,082	13,150
Missouri	21,404	27	4,144	17,233
Nebraska	14,149	45	7,533	6,571
North Dakota	2,950	123	1,154	1,673
South Dakota	2,622	12	945	1,665
South Atlantic	104,802	9,176	21,667	73,959
Delaware	1,339	0	227	1,112
District of Columbia	1,162	0	23	1,139
Florida	12,651	19	2,915	9,717
Georgia	25,147	11	5,148	19,988
Maryland	8,764	24	846	7,894
North Carolina	12,090	0	2,302	9,788
South Carolina	9,973	0	2,353	7,620
Virginia	11,345	100	2,434	8,811
West Virginia	22,331	9,022	5,419	7,890
East South Central	74,377	4,057	27,048	43,272
Alabama	19,664	7	5,334	14,323
Kentucky	20,110	3,794	6,961	9,355
Mississippi	18,101	254	9,464	8,383
Tennessee	16,502	2	5,289	11,211
West South Central	220,101	32,362	85,802	101,937
Arkansas	18,387	947	6,719	10,721
Louisiana	42,256	2,701	23,099	16,456
Oklahoma	38,578	10,779	12,486	15,313
Texas	120,880	17,935	43,498	59,447
Mountain	99,270	19,570	28,925	50,775
Arizona	16,817	2	5,086	11,729
Colorado	23,488	3,279	6,683	13,526
Idaho	4,435	0	1,525	2,910
Montana	8,538	2,276	3,087	3,175
Nevada	3,658	5	1,291	2,362
New Mexico	25,373	10,423	6,435	8,515
Utah	8,504	847	1,005	6,652
Wyoming	8,457	2,738	3,813	1,906
Pacific	104,589	921	11,519	92,149
Alaska	1,212	7	211	994
California	80,837	895	7,935	72,007
Hawaii	587	0	0	587
Oregon	10,070	19	1,399	8,652
Washington	11,883	0	1,974	9,909

a. Excludes 411,583 miles of service pipe. Data not adjusted to common diameter equivalent. Mileage shown as of end of year.
b. Includes 7,820 miles of underground storage pipe.

DISTRIBUTION AND TRANSMISSION

TABLE 48
GAS UTILITY INDUSTRY MILES OF PIPELINE AND MAIN,
BY STATE, 1955-1981^a

Division and State	1955	1960	1965	1970	1975	1980 ^R	1981
United States	496,740	630,950	767,520	913,267	979,263	1,049,858	1,064,190
New England	17,000	19,140	22,090	25,686	26,580	27,794	28,093
Connecticut	3,720	4,300	4,960	5,728	5,991	6,710	6,798
Maine	430	390	390	705	461	395	389
Massachusetts	10,570	11,910	13,740	15,609	16,452	16,719	16,915
New Hampshire	540	630	800	1,041	1,093	1,163	1,162
Rhode Island	1,520	1,720	1,990	2,299	2,248	2,403	2,425
Vermont	220	190	210	304	335	404	404
Middle Atlantic	80,710	92,600	102,580	111,644	113,993	116,439	117,314
New Jersey	12,420	15,140	18,320	21,052	22,077	22,838	23,106
New York	28,440	33,020	36,580	39,955	40,535	41,394	41,681
Pennsylvania	39,850	44,440	47,680	50,637	51,381	52,208	52,527
East North Central	90,210	113,420	147,640	178,268	190,172	200,361	201,927
Illinois	21,250	27,770	38,750	46,683	50,252	53,258	53,501
Indiana	11,840	14,800	20,240	25,264	27,267	28,334	28,762
Michigan	16,810	21,860	30,370	37,699	40,203	44,100	44,486
Ohio	34,180	40,150	44,690	47,393	51,505	52,667	52,981
Wisconsin	6,130	8,840	13,590	19,229	20,945	21,992	22,197
West North Central	55,200	67,640	82,250	99,536	106,134	112,354	113,717
Iowa	7,840	9,970	13,630	16,654	17,273	17,892	18,042
Kansas	22,910	25,860	28,780	32,802	34,280	36,893	37,318
Minnesota	5,360	8,090	10,680	14,162	15,264	16,720	17,232
Missouri	9,770	11,950	15,150	18,654	20,897	21,307	21,404
Nebraska	7,320	8,910	10,300	12,627	13,333	14,079	14,149
North Dakota	930	1,100	1,560	2,332	2,533	2,854	2,950
South Dakota	1,070	1,760	2,150	2,305	2,554	2,609	2,622
South Atlantic	43,260	59,100	74,180	92,738	100,496	103,660	104,802
Delaware	560	830	1,160	1,270	1,322	1,336	1,339
District of Columbia	1,140	1,160	1,150	1,164	1,177	1,157	1,162
Florida	3,220	6,400	8,330	11,435	13,100	12,602	12,651
Georgia	6,430	10,580	14,600	19,549	22,679	24,676	25,147
Maryland	4,430	5,400	6,710	7,986	8,534	8,704	8,764
North Carolina	2,290	4,830	7,080	10,605	11,100	11,842	12,090
South Carolina	1,350	3,320	6,090	8,514	9,667	9,825	9,973
Virginia	4,750	6,490	8,190	10,451	10,944	11,226	11,375
West Virginia	19,090	20,090	20,870	21,764	21,987	22,292	22,331
East South Central	33,390	44,930	54,390	65,441	70,345	73,822	74,377
Alabama	8,220	11,380	13,860	16,607	17,832	19,556	19,664
Kentucky	9,790	13,130	15,470	18,295	19,816	19,981	20,110
Mississippi	9,020	11,420	13,460	16,403	17,056	17,926	18,101
Tennessee	6,360	9,000	11,600	14,136	15,641	16,359	16,502
West South Central	99,330	127,120	150,260	182,752	194,820	216,394	220,101
Arkansas	8,700	10,380	13,060	16,429	17,474	18,312	18,387
Louisiana	17,820	24,970	30,310	36,921	38,855	41,689	42,256
Oklahoma	16,080	19,590	23,850	28,532	32,798	37,132	38,578
Texas	56,730	72,180	83,040	100,870	105,693	119,261	120,880
Mountain	29,630	44,940	59,000	71,848	83,184	96,307	99,270
Arizona	6,770	9,630	11,120	13,379	15,197	16,669	16,817
Colorado	5,530	8,080	12,240	15,870	19,192	23,108	23,488
Idaho	20	1,490	2,770	3,226	3,785	4,177	4,475
Montana	4,120	5,120	5,970	6,324	7,435	8,372	8,538
Nevada	300	660	1,940	2,470	2,945	3,554	3,658
New Mexico	8,320	13,160	15,410	19,050	21,657	24,581	25,373
Utah	2,160	3,400	4,940	5,609	6,577	7,846	8,504
Wyoming	2,410	3,400	4,610	5,920	6,396	8,000	8,457
Pacific	48,010	62,060	75,130	85,354	93,539	102,727	104,589
Alaska	c	c	250	667	868	1,186	1,212
California	43,070	52,280	60,650	66,328	72,493	79,625	80,837
Hawaii	b	440	490	530	581	587	587
Oregon	2,720	3,940	6,360	8,014	8,838	9,709	10,070
Washington	2,220	5,400	7,380	9,815	10,759	11,620	11,883

a. Includes field, gathering, underground storage, transmission and distribution main but excludes service pipe. Data not adjusted to common diameter equivalent. Mileage shown as of end of year.

b. Excludes data for Alaska prior to 1959 and Hawaii prior to 1960.

c. Not available.

R—Revised.

GAS FACTS

TABLE 49
GAS UTILITY INDUSTRY MILES OF PIPELINE AND MAIN INSTALLED DURING 1981, BY TYPE, BY STATE AND BY TYPE OF PIPE^a

Division and State	Total ^d	Field and Gathering	Transmission Pipeline	Distribution Main			
		Steel	Steel ^b	Total	Steel	Plastic ^c	Other
United States	20,617	3,877	3,917	13,023	4,486	8,487	50
New England	309	0	43	266	127	130	9
Connecticut	104	0	12	92	54	38	0
Maine	6	0	0	6	1	5	0
Massachusetts	144	0	22	122	57	65	0
New Hampshire	31	0	9	22	10	3	9
Rhode Island	24	0	0	24	5	19	0
Vermont	0	0	0	0	0	0	0
Middle Atlantic	1,810	119	407	1,284	470	809	5
New Jersey	416	0	19	397	156	241	0
New York	563	86	74	403	104	299	0
Pennsylvania	831	33	314	484	210	269	5
East North Central	3,317	31	179	3,107	1,216	1,881	10
Illinois	961	0	35	926	569	356	1
Indiana	550	1	33	516	86	430	0
Michigan	624	9	61	554	37	508	9
Ohio	772	21	32	719	483	236	0
Wisconsin	410	0	18	392	41	351	0
West North Central	1,901	234	124	1,543	518	1,024	1
Iowa	208	0	26	182	47	134	1
Kansas	592	234	18	340	203	137	0
Minnesota	656	0	52	604	138	466	0
Missouri	223	0	4	219	58	161	0
Nebraska	86	0	9	77	44	33	0
North Dakota	102	0	15	87	21	66	0
South Dakota	34	0	0	34	7	27	0
South Atlantic	1,485	48	212	1,225	790	425	10
Delaware	11	0	0	11	6	5	0
Dist. of Columbia	13	0	0	13	9	4	0
Florida	136	0	0	136	95	41	0
Georgia	485	0	116	369	356	13	0
Maryland	99	0	4	95	60	35	0
North Carolina	298	0	23	275	150	125	0
South Carolina	164	0	54	110	32	78	0
Virginia	154	2	1	151	53	88	10
West Virginia	125	46	14	65	29	36	0
East South Central	753	72	131	550	217	319	14
Alabama	178	0	51	127	22	105	0
Kentucky	176	68	9	99	75	24	0
Mississippi	199	4	57	138	48	89	1
Tennessee	200	0	14	186	72	101	13
West South Central	4,942	1,581	1,587	1,774	480	1,293	1
Arkansas	93	26	18	49	7	42	0
Louisiana	978	133	733	112	75	37	0
Oklahoma	1,463	783	278	402	17	324	1
Texas	2,408	639	558	1,211	521	890	0
Mountain	3,348	1,538	868	942	185	757	0
Arizona	194	1	13	180	51	129	0
Colorado	603	488	79	36	10	26	0
Idaho	272	0	216	56	5	51	0
Montana	187	85	46	56	2	54	0
Nevada	117	0	16	101	16	85	0
New Mexico	831	446	286	99	88	11	0
Utah	563	154	65	344	0	344	0
Wyoming	581	364	147	70	13	57	0
Pacific	2,752	54	366	2,332	483	1,849	0
Alaska	351	0	0	351	0	351	0
California	1,612	44	51	1,517	221	1,296	0
Hawaii	6	0	0	6	0	6	0
Oregon	454	10	210	234	193	41	0
Washington	329	0	105	224	69	155	0

a. Excludes service pipe. Data not adjusted to common diameter equivalent.

b. Includes 160 miles of underground storage pipe.

c. Includes fiberglass.

d. Does not include 110 miles of plastic and other pipe classified as field and gathering and transmission pipe.

DISTRIBUTION AND TRANSMISSION

TABLE 50*
STEEL AND OTHER METALS USED BY THE GAS UTILITY INDUSTRY,
1960-1981^a

Type of Material	1960	1964	1968	1972	1976	1978	1980	1981
Steel, Total (000 Tons)	2,238	1,449	2,138	877	580	552	958	1,453
Pipe, Total	2,227	1,446	2,132	876	577	544	930	1,453
Pipe under 6"	339	367	340	214	250	256	198	364
Pipe 6"-14"	434	375	319	275	215	240	390	366
Pipe 16"-22"	229	177	179	188	80	29	162	191
Pipe 24" and over	1,225	527	1,294	198	32	19	180	532
Other Steel	11	3	6	1	3	8	28	c
Cast Iron (000 Tons)	35	19	11	1	c	c	c	c
Copper (Tons)	1,125	3,626	2,863	1,464	189	138	34	20
Aluminum (Tons)	34	31	138	20	d	d	d	d
Plastic Pipe (Tons)	e	848	3,728	8,790	13,460	24,725	41,034	39,211

a. Includes usage of transmission companies, but excludes requirements for natural gas production facilities.

b. Included in Pipe 24" and over.

c. Less than 500 tons.

d. Not available due to insufficient reporting.

e. Not available.

*This table is to be eliminated after 1981.

TABLE 51
GAS UTILITY INDUSTRY REQUIREMENTS OF STEEL PIPE FOR
NEW CONSTRUCTION AND MAINTENANCE AND REPAIR
BY SIZE OF PIPE, 1981

(Thousands of tons)

Size of Pipe	Total	New Construction	Maintenance Repair
Normal Pipe Size—Inches			
3/4 and less	72.8	72.2	0.6
1	35.5	21.3	14.2
1 1/4	15.9	15.4	0.5
1 1/2	0.5	0.3	0.2
Outside Diameter—Inches			
2 3/8	178.8	170.9	7.9
3 1/2	12.8	4.2	8.6
4 1/2	76.8	69.4	7.4
6 5/8	70.9	65.0	5.9
8 5/8	169.9	164.8	5.1
10 3/4	26.5	24.0	2.5
12 3/4	123.7	116.7	7.0
14	0.2	0.2	a
16	61.3	57.4	3.9
18	14.7	14.7	a
20	116.7	115.5	1.2
22	3.5	1.5	2.0
24	10.8	10.1	0.7
26	0.7	0.7	0.0
30	37.9	37.9	a
34	0.1	0.1	0.0
36	20.4	20.3	0.1
42	82.1	82.1	0.0
Other Sizes	0.1	0.1	0.0
Total	1,132.6	1,064.8	67.8

a. Less than 50 tons.

GAS FACTS

TABLE 52
SELECTED STATISTICS FOR MAJOR TRANSMISSION COMPANIES, 1981

Name of Transmission System	No. of Transmission Stations	Total Miles of Transmission Pipeline	Peak Day Sendout (MMCF)	Operating Revenues (\$'000,000)
Algonquin Gas Transmission Co.	3	909	837	\$ 564.2
Cities Service Gas Co.	41	5,835	a	954.7
Colorado Interstate Gas Corp.	17	2,725	1,560	1,013.1
Columbia Gas Transmission Co.	99	10,046	7,639	3,429.6
Columbia Gulf Transmission Co.	13	4,096	1,610	169.2
Consolidated Gas Supply Corp.	42	3,565	4,694	1,855.2
East Tennessee Natural Gas Co.	10	1,012	369	244.0
El Paso Natural Gas Co.	53	9,331	3,752	3,531.0
Florida Gas Transmission Co.	20	4,484	792	559.1
InterNorth, Inc.	65	18,548	4,047	2,204.0
Michigan Wisconsin Pipeline Co.	38	7,700	3,933	2,294.6
Midwestern Gas Transmission Co.	19	903	1,064	1,035.8
Mississippi River Transmission Corp.	15	1,969	1,061	607.0
Natural Gas Pipeline Co. of America	80	10,683	5,471	2,543.9
Pacific Gas Transmission Co.	13	799	1,008	1,317.8
Panhandle Eastern Pipeline Co.	70	6,814	2,696	1,942.0
South Georgia Natural Gas Co.	2	767	116	120.3
Southern Natural Gas Co.	41	7,319	2,753	1,981.4
Tenneco, Inc.	66	13,755	4,061	3,276.6
Texas Eastern Transmission Corp.	75	9,259	4,286	2,334.2
Texas Gas Transmission Corp.	22	5,613	2,913	1,687.1
Transcontinental Gas Pipeline Corp.	38	9,547	7,731	3,336.6
Transwestern Pipeline Co.	182	4,012	955	918.9
Trunkline Gas Co.	21	3,916	1,806	1,545.1
United Gas Pipeline Co.	32	7,356	4,825	3,252.1

a. Not available.

Source: Federal Energy Regulatory Commission, FERC Form No. 2: Annual Report of Natural Gas Companies (Class A and Class B), 1981.

DISTRIBUTION AND TRANSMISSION

TABLE 53
INTERSTATE MOVEMENTS AND MOVEMENTS ACROSS U.S. BORDERS
OF NATURAL AND SUPPLEMENTAL GAS,* 1980

(Millions of cubic feet)

Division and State	Interstate Movements			Movements Across U.S. Borders		
	Receipts	Deliveries	Net	Receipts ^a	Deliveries ^b	Net
United States	51,325,948	51,325,948	0	1,266,879	331,005	935,874
New England	479,947	207,939	272,008	28,495	0	28,495
Connecticut	166,127	90,101	76,026	0	0	0
Maine	2,207	0	2,207	0	0	0
Massachusetts	208,470	45,703	162,767	24,274	0	24,274
New Hampshire	6,807	2,207	4,600	0	0	0
Rhode Island	96,336	69,928	26,408	0	0	0
Vermont	0	0	0	4,221	0	4,221
Middle Atlantic	3,890,500	2,142,146	1,748,354	14,867	0	14,867
New Jersey	859,553	384,175	475,378	0	0	0
New York	918,815	328,201	590,614	14,867	0	14,867
Pennsylvania	2,112,132	1,429,770	682,362	0	0	0
East North Central	7,975,805	4,303,812	3,671,993	0	257,647	-257,647
Illinois	2,312,585	1,031,428	1,281,157	0	0	0
Indiana	1,687,205	1,227,308	459,897	0	0	0
Michigan	862,303	0	862,303	0	257,647	-257,647
Ohio	2,388,034	1,680,895	707,139	0	0	0
Wisconsin	725,678	364,181	361,497	0	0	0
West North Central	5,801,953	5,672,747	129,206	530,678	9,544	521,134
Iowa	1,160,209	908,461	251,748	0	0	0
Kansas	1,430,150	1,856,216	-426,066	0	0	0
Minnesota	282,412	488,173	-205,761	530,678	9,544	521,134
Missouri	1,563,023	1,237,618	325,405	0	0	0
Nebraska	1,336,951	1,175,024	161,927	0	0	0
North Dakota	5,218	6,349	-1,131	0	0	0
South Dakota	23,990	906	23,084	0	0	0
South Atlantic	6,704,222	5,535,006	1,169,216	61,576	0	61,576
Delaware	4,268	1,452	2,816	0	0	0
District of Columbia	28,096	0	28,096	0	0	0
Florida	276,295	0	276,295	0	0	0
Georgia	1,321,780	1,013,310	308,470	24,603	0	24,603
Maryland	910,356	787,956	122,400	36,973	0	36,973
North Carolina	868,660	725,642	143,018	0	0	0
South Carolina	987,633	868,660	118,973	0	0	0
Virginia	1,045,465	908,811	136,654	0	0	0
West Virginia	1,261,669	1,229,175	32,494	0	0	0
East South Central	15,429,756	14,724,072	705,684	0	0	0
Alabama	2,901,573	2,703,544	198,029	0	0	0
Kentucky	3,377,276	3,214,552	162,724	0	0	0
Mississippi	5,512,802	5,420,674	92,128	0	0	0
Tennessee	3,638,105	3,385,302	252,803	0	0	0
West South Central	5,992,229	14,240,515	-8,248,286	102,410	3,200	99,210
Arkansas	2,855,625	2,687,070	168,555	0	0	0
Louisiana	1,246,163	6,181,011	-4,934,848	0	0	0
Oklahoma	1,009,941	1,713,727	-703,786	0	0	0
Texas	880,500	3,658,707	-2,778,207	102,410	3,200	99,210
Mountain	2,832,732	3,851,042	-1,018,310	374,300	15,882	358,483
Arizona	1,398,841	1,215,974	182,867	0	686	-686
Colorado	207,996	174,197	33,799	0	0	0
Idaho	75,680	417,488	-341,808	352,015	0	352,015
Montana	22,777	5,691	17,086	22,350	15,196	7,154
Nevada	59,932	0	59,932	0	0	0
New Mexico	816,621	1,583,501	-766,880	0	0	0
Utah	160,420	80,264	80,156	0	0	0
Wyoming	90,465	373,927	-283,462	0	0	0
Pacific	2,218,805	648,666	1,570,139	154,488	44,732	109,756
Alaska	0	0	0	0	44,732	-44,732
California	1,481,832	0	1,481,832	0	0	0
Hawaii	0	0	0	0	0	0
Oregon	387,393	308,551	78,842	0	0	0
Washington	349,580	340,115	9,465	154,488	0	154,488

a. For detail by country see Table 24.

b. For detail by country see Table 23.

*Supplemental Gas Supplies totaled 154,590 million cubic feet (MMcf). See Table 25.

Note: Totals may not add due to independent rounding.

Source: Energy Information Administration, U.S. Department of Energy, *Natural Gas Annual*, 1980.

SECTION VI

ENERGY CONSUMPTION

	<u>1981</u>	<u>% Change 81/80</u>
Annual Consumption		
(Trillions of Btu)		
Total	73,779	- 2.8
Natural Gas Dry	19,762	- 3.1
Crude Petroleum	31,998	- 6.4
Bituminous & Lignite	16,021	+ 3.9
Hydropower	2,970	- 4.4
Nuclear	2,901	+ 8.6
Other	127	+11.4

GAS FACTS

TABLE 54
ANNUAL CONSUMPTION OF ENERGY RESOURCES IN THE UNITED STATES,
BY MAJOR SOURCES, BY CONSUMING SECTORS, 1974-1981^a

(Trillions of Btu)

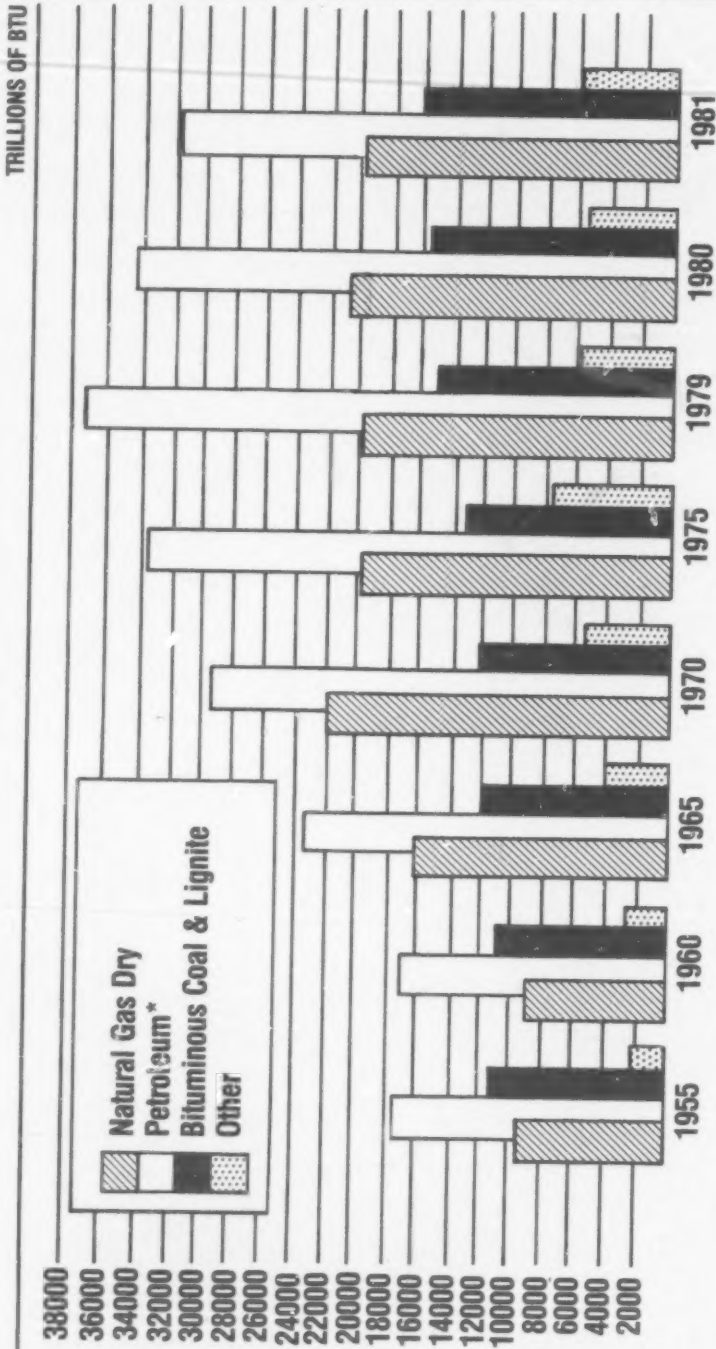
Consuming Sectors	Coal and Coke	Natural gas dry ^b	Petroleum ^c	Hydro-power ^d	Nuclear power ^d	Other ^e	Total gross energy inputs ^f	Utility electricity purchased ^g	Total Sector energy inputs
Household and commercial:									
1974 ^R	292	7,518	3,932	—	—	—	11,742	3,475	15,217
1975 ^R	238	7,581	3,760	—	—	—	11,579	3,604	15,183
1976 ^R	227	7,836	4,160	—	—	—	12,253	3,747	16,000
1977 ^R	225	7,461	4,148	—	—	—	11,834	3,955	15,789
1978 ^R	239	7,624	4,062	—	—	—	11,925	4,116	16,041
1979 ^R	210	7,891	3,687	—	—	—	11,788	4,184	15,972
1980 ^R	160	7,540	3,280	—	—	—	10,980	4,355	15,335
1981 ^P	167	7,404	3,125	—	—	—	10,696	4,400	15,096
Industrial:									
1974 ^R	4,107 ^h	10,003	8,707	33	—	—	22,850	2,337	25,187
1975 ^R	3,811 ^h	8,532	8,192	32	—	—	20,567	2,346	22,913
1976 ^R	3,786	8,761	9,092	33	—	—	21,672	2,573	24,245
1977 ^R	3,513 ^h	8,636	9,789	33	—	—	21,971	2,682	24,653
1978 ^R	3,503 ^h	8,539	10,046	32	—	—	22,120	2,761	24,881
1979 ^R	3,702 ^h	8,549	10,294	34	—	—	22,579	2,873	25,452
1980 ^R	3,144 ^h	8,395	9,272	33	—	—	20,844	2,781	23,625
1981 ^P	3,125 ^h	7,963	8,123	33	—	—	19,244	2,817	22,061
Transportation:^j									
1974 ^R	2	685	17,317	—	—	—	18,004	9	18,013
1975 ^R	1	595	17,547	—	—	—	18,143	10	18,153
1976 ^R	j	559	18,469	—	—	—	19,028	10	19,038
1977 ^R	—	543	19,157	—	—	—	19,700	10	19,710
1978 ^R	—	539	20,044	—	—	—	20,583	9	20,592
1979 ^R	—	612	19,786	—	—	—	20,398	10	20,408
1980 ^R	—	650	18,996	—	—	—	19,646	11	19,657
1981 ^P	—	630	18,548	—	—	—	19,178	11	19,189
Electricity generation, utilization:									
1974 ^R	8,535	3,519	3,499	3,276	1,272	56	20,157	(5,821)	—
1975 ^R	8,786	3,240	3,231	3,187	1,900	72	20,416	(5,960)	—
1976 ^R	9,720	3,152	3,454	3,032	2,111	81	21,550	(6,330)	—
1977 ^R	10,243	3,284	4,028	2,482	2,702	82	22,821	(6,647)	—
1978 ^R	10,236	3,297	3,813	3,110	3,024	68	23,548	(6,886)	—
1979 ^R	11,264	3,609	3,357	3,107	2,715	89	24,141	(7,067)	—
1980 ^R	12,122	3,807	2,654	3,074	2,672	114	24,443	(7,147)	—
1981 ^P	12,707	3,764	2,202	2,937	2,901	127	24,638	(7,228)	—
Unaccounted for:									
1974 ^R	—	7	—	—	—	—	7	—	7
1975 ^R	—	—	—	—	—	—	—	—	—
1976 ^R	—	7	—	—	—	—	7	—	7
1977 ^R	—	7	—	—	—	—	7	—	7
1978 ^R	—	—	—	—	—	—	—	—	—
1979 ^R	—	5	—	—	—	—	5	—	5
1980 ^R	—	—	—	—	—	—	—	—	—
1981 ^P	22	—	—	—	—	—	22	—	22
Total gross energy inputs:									
1974 ^R	12,935	21,732	33,455	3,309	1,272	56	72,759	—	58,424
1975 ^R	12,837	19,948	32,731	3,219	1,900	72	70,707	—	56,249
1976 ^R	13,733	20,345	35,175	3,066	2,111	81	74,510	—	59,290
1977 ^R	13,979	19,931	37,122	2,515	2,702	82	76,332	—	60,159
1978 ^R	13,977	20,000	37,965	3,141	3,024	68	78,175	—	61,514
1979 ^R	15,175	20,666	37,123	3,141	2,715	89	78,913	—	61,837
1980 ^R	15,424	20,394	34,202	3,107	2,672	114	75,913	—	58,617
1981 ^P	16,021	19,762	31,998	2,970	2,901	127	73,779	—	56,368

- a. Gross energy is the total of inputs into the economy of the primary fuels (including imports) or their derivatives, plus the generation of hydro, nuclear power and other (converted to equivalent energy inputs).
- b. Excludes natural gas liquids.
- c. Petroleum products including still gas, liquefied refinery gas and natural gas liquids.
- d. Outputs and hydropower (adjusted for net imports or net exports) are converted to theoretical energy inputs calculated from national average heat rates for fossil-fueled steam-electric plants provided by the Federal Power Commission using 10,353 Btu per net KWH for 1981. Energy input for nuclear power converted at an average heat rate of 10,640 Btu per net KWH based on information from the Atomic Energy Commission. Excludes inputs for power generated by non-utility plants, which are included within the other consuming sectors.
- e. Includes geothermal power and electricity produced from wood and waste.
- f. Gross energy resource inputs with electricity generation shown as separate consuming sector.
- g. Utility electricity generated and imported, distributed to the other consuming sectors as energy resource inputs. Distribution to sectors is based on historical series in Edison Electric Institute Statistical Yearbook. Conversion of electricity to energy equivalent by sector was made at the value of contained energy corresponding to 100 percent thermal efficiency using a theoretical rate of 3,412 Btu/KWH.
- h. Includes net imports of coke of 59 trillion Btu in 1974, 14 trillion Btu in 1975, 15 trillion Btu in 1977, 131 trillion Btu in 1978, 66 trillion Btu in 1979, -37 trillion Btu in 1980, and -17 trillion Btu in 1981.
- i. Includes bunkers and military transportation.
- j. Less than 0.5 trillions of Btu.
- R—Revised. Note that all years have been revised. P—Preliminary.
- Source: Prior to 1977, U.S. Bureau of Mines, 1977 and beyond, *Monthly Energy Review*, U.S. Department of Energy.

ENERGY CONSUMPTION

CHART 11

UNITED STATES ENERGY CONSUMPTION



REFERENCE: TABLE 55 *Includes Natural Gas Liquids

GAS FACTS

TABLE 55
ANNUAL CONSUMPTION OF FOSSIL ENERGY RESOURCES AND ELECTRICITY FROM
HYDROPOWER AND NUCLEAR POWER IN THE UNITED STATES, 1955-1981^a

(Trillions of Btu)^b

Year	Natural Gas Dry ^c	Natural Gas Liquids	Crude Petroleum and Products	Bituminous Coal and Lignite	Anthracite Coal	Hydro-power ^d	Nuclear ^d	Other ^h	Grand Total Energy
1955	9,232	1,196	16,328	11,104	599	1,497	—	*	39,956
1956	9,834	1,209	17,418	11,338	619	1,598	—	*	42,007
1957	10,416	1,242	17,328	10,838	528	1,567	—	*	41,920
1958	10,995	1,240	17,428	9,607	483	1,740	—	*	41,493
1959	11,991	1,348	18,399	9,596	478	1,695	—	*	43,507
1960	12,736	1,427	18,608	9,967	447	1,626	5	*	44,816
1961	13,228	1,498	18,989	9,809	404	1,628	17	*	45,573
1962	14,027	1,586	19,681	10,160	363	1,780	23	*	47,620
1963	14,843	1,703	20,247	10,722	361	1,740	33	*	49,649
1964	15,515	1,772	20,700	11,295	365	1,873	34	*	51,554
1965	16,097	1,853	21,566	12,030	328	2,057	38	*	53,969
1966	17,393	1,989	22,405	12,740	290	2,073	58	*	56,948
1967	18,250	2,043	23,292	11,982	274	2,344	80	*	58,265
1968	19,580	2,239	24,813	12,401	258	2,342	130	*	61,763
1969	21,020	2,459	25,962	12,509	224	2,659	146	*	64,979
1970	22,029	2,494	27,043	12,488	210	2,650	229	*	67,143
1971	22,470	2,496	28,074	11,858	187	2,862	404	*	68,351
1972	22,698	2,706	30,260	12,273	150	2,946	576	*	71,609
1973 ^R	22,512	2,652	32,188	13,148 ^e	144	3,009	910	46	74,609
1974 ^R	21,733	2,565	30,890	12,796 ^e	139	3,309	1,272	56	72,759
1975 ^R	19,948	2,484	30,247	12,707 ^e	130	3,219	1,900	72	70,707
1976 ^R	20,345	f	35,175	13,601	132	3,066	2,111	81	74,510
1977 ^R	19,931	f	37,122	13,980 ^e	g	2,515	2,702	82	76,332
1978 ^R	20,000	f	37,965	13,977 ^e	g	3,141	3,024	68	78,175
1979 ^R	20,666	f	37,123	15,175 ^e	g	3,141	2,715	89	78,910
1980 ^R	20,394	f	34,202	15,424 ^e	g	3,107	2,672	114	75,913
1981 ^P	19,762	f	31,998	16,021 ^e	g	2,970	2,901	127	73,779

a. Represents production minus exports plus imports, and adjusted for change in inventories.

b. The Btu value per cubic foot for natural gas dry for 1964 and prior years is 1,035; for 1965-1968 1,032; for 1969, 1971 and 1972 1,031; for 1973 1,027; for 1974 1,021; for 1975 1,024; for 1976-1977 1,021; 1978 1,019; 1979 1,021; 1980-1981 1,026. See Table 19 for Btu values assigned to other energy sources.

c. Marketed production minus shrinkage caused by liquids extraction (34 cubic feet per gallon produced).

d. See Table 20 for procedures used to determine Btu equivalents.

e. Includes net imports of coke of -8 trillion Btu in 1973, 59 trillion Btu in 1974, 14 trillion Btu in 1975, 15 trillion Btu in 1977, 131 trillion Btu in 1978, 66 trillion Btu in 1979, -37 trillion Btu in 1980, and -17 trillion Btu in 1981.

f. Included in "Crude Petroleum and Products."

g. Included in "Bituminous Coal and Lignite."

h. Includes energy from geothermal, wood or waste products.

R—Revised.

P—Preliminary.

Source: Prior to 1977, U.S. Bureau of Mines. 1977 and beyond, *Monthly Energy Review*, U.S. Department of Energy.

ENERGY CONSUMPTION

TABLE 56
ANNUAL CONSUMPTION OF FOSSIL ENERGY RESOURCES AND ELECTRICITY FROM
HYDROPOWER AND NUCLEAR POWER IN THE UNITED STATES, 1960-1981

(Percentage)

Year	Natural Gas Dry	Natural Gas Liquids	Crude Petroleum and Products	Bituminous Coal and Lignite	Anthracite Coal	Hydro-power	Nuclear	Other	Grand Total Energy
1960	28.4	3.2	41.6	22.2	1.0	3.6	a	*	100.0
1961	29.0	3.3	41.6	21.5	0.9	3.6	0.1	*	100.0
1962	29.5	3.3	41.3	21.3	0.8	3.7	0.1	*	100.0
1963	29.9	3.4	40.8	21.6	0.7	3.5	0.1	*	100.0
1964	30.5	3.4	39.9	21.8	0.7	3.6	0.1	*	100.0
1965	29.8	3.4	40.0	22.3	0.6	3.8	0.1	*	100.0
1966	30.9	3.5	39.7	22.4	0.5	3.7	0.1	*	100.0
1967	31.3	3.5	40.0	20.6	0.5	4.0	0.1	*	100.0
1968	31.7	3.6	40.2	20.1	0.4	3.8	0.2	*	100.0
1969	32.4	3.8	39.9	19.3	0.3	4.1	0.2	*	100.0
1970	32.8	3.7	40.3	18.6	0.3	4.0	0.3	*	100.0
1971 ^R	32.9	3.6	41.1	17.3	0.3	4.2	0.6	*	100.0
1972	31.7	3.8	42.3	17.1	0.2	4.1	0.8	*	100.0
1973 ^R	30.2	3.6	43.1	17.6	0.2	4.0	1.2	0.1	100.0
1974 ^R	29.9	3.5	42.5	17.6	0.2	4.5	1.7	0.1	100.0
1975 ^R	28.2	3.5	42.8	18.0	0.2	4.5	2.7	0.1	100.0
1976 ^R	27.3	c	47.2	18.3	0.2	4.1	2.8	0.1	100.0
1977 ^R	26.1	c	48.6	18.3	b	3.3	3.5	0.1	100.0
1978 ^R	25.6	c	48.6	17.9	b	4.0	3.8	0.1	100.0
1979 ^R	26.2	c	47.0	19.2	b	4.0	3.5	0.1	100.0
1980 ^R	26.9	c	45.1	20.3	b	4.1	3.5	0.1	100.0
1981	26.8	c	43.4	21.7	b	4.0	3.9	0.2	100.0

a. Less than 0.05.

b. Included in "Bituminous Coal and Lignite."

c. Included in "Crude Petroleum and Products."

Source: Same as Table 55.

R—Revised.

*—Unavailable.

TABLE 57
ENERGY CONSUMPTION PER CAPITA IN THE UNITED STATES, 1960-1981*

Year	Total Energy Consumed (Trillions of Btu)	Natural Gas Consumed (Trillions of Btu)	Resident Population (Thousands)	Energy Consumed Per Capita (Millions of Btu)	Natural Gas Consumed Per Capita (Millions of Btu)	Gross National Product (1972 \$)	Total Energy Per Dollar of GNP (1972 \$)	Index of Industrial Production (1972=100)
1960	44,816	12,736	179,992	249	71	736.8	60.8	55.3
1961	45,573	13,228	183,057	249	72	755.3	60.3	55.7
1962	47,620	14,027	185,890	256	75	799.1	59.6	60.3
1963	49,649	14,843	188,658	263	79	830.7	59.8	63.9
1964	51,554	15,515	191,372	269	81	874.4	59.0	68.3
1965	53,969	16,097	193,815	278	83	925.9	58.3	75.0
1966 ^R	56,948	17,393	195,936	291	89	981.0	58.1	81.7
1967	58,265	18,250	197,859	294	92	1,007.7	57.8	83.5
1968	61,763	19,580	199,846	309	98	1,051.8	58.7	88.8
1969	64,979	21,020	201,423	323	104	1,078.8	60.2	92.8
1970	67,143	22,029	203,302	330	106	1,075.3	62.4	90.1
1971 ^R	68,351	22,470	206,827	330	109	1,107.5	61.7	91.6
1972	71,609	22,698	209,284	342	108	1,171.1	61.1	100.0
1973	74,609	22,512	211,357	353	107	1,233.4	60.5	108.4
1974	72,759	21,733	213,342	341	102	1,210.7	60.1	108.0
1975	70,707	19,948	215,465	328	93	1,191.7	59.3	98.4
1976	74,510	20,345	217,563	343	94	1,274.7	58.4	109.0
1977	76,332	19,931	219,760	347	91	1,337.3	57.1	115.5
1978 ^R	78,175	20,000	222,095	352	90	1,399.2	55.9	122.1
1979 ^R	78,910	20,666	224,567	351	92	1,431.6	55.1	127.4
1980 ^R	75,913	20,394	226,505	335	90	1,480.9	51.3	122.8
1981	73,779	19,762	229,307	322	86	1,510.3	48.9	126.2

R-Revised.

Sources: U.S. Department of Energy. U.S. Bureau of the Census and the Federal Reserve Board.

GAS FACTS

TABLE 58
GAS UTILITY INDUSTRY AVERAGE ANNUAL
CONSUMPTION PER CUSTOMER,
BY CLASS OF SERVICE 1955-1981*

(MMBtu/Customer)					
Year	Total	Residential	Commercial	Industrial ^b	Other ^b
1955	233.8	85.2	794.5	29,167.5	10,250.9
1956	245.6	90.5	306.4	30,752.8	8,996.6
1957	252.8	92.5	316.1	30,663.6	11,309.1
1958	257.0	97.7	334.5	30,375.6	10,770.1
1959	274.2	100.7	350.1	33,478.4	11,836.6
1960	281.0	104.8	374.2	33,495.0	12,577.5
1961	283.4	106.7	390.7	32,621.7	13,468.7
1962	295.1	110.9	420.7	32,713.9	13,795.1
1963	302.8	112.1	430.6	33,630.8	13,460.2
1964	317.9	115.3	469.5	37,089.1	13,234.6
1965	320.9	116.5	482.1	36,982.6	12,009.8
1966	336.4	118.8	510.0	38,250.3	12,755.1
1967	345.2	121.5	537.8	38,710.3	11,397.0
1968	362.4	124.1	567.6	40,378.0	13,129.2
1969	376.7	128.4	611.0	42,220.0	11,327.2
1970	386.8	129.2	640.9	42,386.7	12,232.3
1971	395.0	129.9	673.8	42,235.0	17,064.6
1972	397.7	130.4	697.3	41,948.8	16,428.8
1973	377.0	124.5	684.6	40,051.7	15,129.5
1974	361.1	119.6	676.1	42,066.8	12,586.1
1975	333.6	121.9	708.9	37,253.5	12,039.8
1976 ^R	329.7	121.3	718.6	40,022.3	3,511.6
1977 ^R	316.8	118.7	714.8	39,217.5	3,996.3
1978 ^R	322.2	121.0	743.6	36,635.8	4,511.8
1979 ^R	330.3	118.6	726.5	40,345.3	5,133.9
1980 ^R	326.9	110.9	699.3	42,380.9	4,206.7
1981	321.5	104.4	664.1	43,750.6	4,131.6

a. Excludes customers purchasing for resale and sales for resale. Customer data is based on yearly averages. Excludes data for Alaska prior to 1961 and Hawaii prior to 1960.

b. Prior to 1976, "Other" electric generation (See Table 74) is included in the "Other" class of service. For 1976 and beyond, all electric generation is included in the Industrial category.

R—Revised.

ENERGY CONSUMPTION

TABLE 59
GAS UTILITY INDUSTRY AVERAGE ANNUAL
CONSUMPTION PER CUSTOMER
BY STATE AND CLASS OF SERVICE, 1981^a

Division and State	Total	Class of Service			
		Residential	Commercial	Industrial	Other
United States	321.5	104.4	664.1	43,750.6	4,131.6
New England	176.9	91.7	676.6	8,104.2	775.6
Connecticut	189.7	90.7	686.8	8,776.1	906.3
Maine	151.7	44.7	429.3	11,372.6	b
Massachusetts	171.0	92.3	723.4	7,584.0	828.4
New Hampshire	195.6	98.8	581.4	11,838.5	701.3
Rhode Island	169.8	91.4	447.5	6,881.2	b
Vermont	289.1	100.5	650.2	82,148.0	442.4
Middle Atlantic	210.8	104.7	570.8	24,256.2	3,393.7
New Jersey	181.3	90.0	447.8	16,090.0	79,440.9
New York	162.2	94.4	505.6	13,637.9	2,944.7
Pennsylvania	315.0	133.0	815.0	51,545.9	4,165.3
East North Central	321.5	148.9	866.3	27,625.7	2,833.8
Illinois	317.5	155.0	914.6	18,686.7	585.4
Indiana	379.3	136.7	660.9	55,804.7	5,665.6
Michigan	317.5	158.2	1,073.4	25,587.0	6,250.0
Ohio	311.2	150.9	818.0	48,198.5	2,746.9
Wisconsin	301.6	116.4	685.0	18,911.4	11,766.7
West North Central	304.7	116.3	688.2	36,887.3	5,873.6
Iowa	320.1	114.2	588.8	60,760.5	2,242.5
Kansas	437.8	111.9	667.8	40,278.5	16,521.3
Minnesota	304.2	124.9	637.6	21,766.3	10,359.5
Missouri	233.8	116.6	909.8	89,687.9	1,417.3
Nebraska	293.4	112.9	534.1	30,804.5	501.2
North Dakota	231.1	114.6	944.7	32,237.0	22,200.0
South Dakota	209.4	105.1	582.8	9,910.9	b
South Atlantic	320.3	92.7	718.4	50,509.4	5,411.1
Delaware	287.5	90.7	784.3	65,147.1	7,834.3
District of Columbia	194.5	103.6	974.5	b	b
Florida	538.2	38.0	822.9	239,600.9	3,705.1
Georgia	288.3	96.2	725.1	67,511.3	3,095.4
Maryland	211.3	97.9	621.6	13,364.1	1,354.5
North Carolina	385.6	96.4	565.6	44,371.7	2,280.2
South Carolina	466.5	74.8	611.0	65,100.1	7,348.9
Virginia	269.5	101.9	830.4	23,864.0	3,320.4
West Virginia	330.4	127.2	744.5	171,076.9	2,506.7
East South Central	349.5	96.7	523.2	67,991.4	1,629.8
Alabama	323.0	84.5	536.2	69,196.8	323.7
Kentucky	267.5	121.9	547.3	47,692.6	4,194.3
Mississippi	447.6	80.7	379.9	107,870.1	3,904.9
Tennessee	408.1	94.5	580.0	57,774.2	587.9
West South Central	658.5	76.6	498.2	117,950.2	9,250.3
Arkansas	436.8	87.3	448.4	81,252.8	12,076.1
Louisiana	570.4	74.0	399.6	192,852.4	16,463.4
Oklahoma	543.1	91.8	540.5	95,117.9	3,663.9
Texas	748.7	72.0	521.5	116,381.6	7,920.9
Mountain	281.8	89.4	586.3	47,558.4	4,611.6
Arizona	243.0	52.1	465.0	41,954.9	3,916.6
Colorado	225.6	96.5	625.3	38,017.3	7,261.3
Idaho	377.5	71.5	542.8	122,861.6	b
Montana	260.9	111.1	625.9	30,257.2	86,581.8
Nevada	436.2	81.6	1,417.3	843,896.9	59,980.0
New Mexico	345.4	86.8	466.6	23,036.8	3,845.1
Utah	278.3	125.4	584.0	87,157.8	11,100.0
Wyoming	505.1	113.4	609.0	147,181.5	2,211.9
Pacific	247.1	73.8	635.8	30,183.6	7,014.2
Alaska	668.5	204.3	689.0	28,185.9	b
California	239.8	72.9	649.4	30,809.4	6,679.8
Hawaii	99.2	23.1	377.5	1,023.4	b
Oregon	264.6	72.1	447.3	65,005.1	b
Washington	338.0	83.9	674.6	33,577.9	11,109.4

a. Excludes customers purchasing for resale and sales for resale. Customer data is based on yearly averages.
b. No sales reported.

GAS FACTS

TABLE 60
GAS UTILITY INDUSTRY AVERAGE ANNUAL
RESIDENTIAL CONSUMPTION PER CUSTOMER
BY STATE, 1955-1981^a

(MMBtu/Customer)

Division and State	1955	1960	1965	1970	1975	1980 ^R	1981
United States	85.2	104.8	116.5	129.2	121.9	110.9	104.4
New England	28.8	49.5	67.7	86.0	85.3	90.1	91.7
Connecticut	29.5	51.2	68.7	87.6	84.6	88.0	90.7
Maine	24.5	29.3	32.1	38.2	38.7	43.2	44.7
Massachusetts	29.9	50.2	69.2	87.0	86.0	91.3	92.3
New Hampshire	29.5	51.4	74.1	93.3	95.1	101.0	98.8
Rhode Island	23.2	47.6	65.0	82.9	84.0	86.9	91.4
Vermont	15.3	19.9	23.1	65.2	93.3	102.8	100.5
Middle Atlantic	59.0	77.6	91.2	107.3	102.1	104.7	104.7
New Jersey	36.1	56.9	73.5	92.2	88.5	89.7	90.0
New York	45.6	63.3	77.7	91.5	89.4	93.5	94.4
Pennsylvania	98.6	117.8	128.7	146.5	135.1	134.4	133.0
East North Central	103.3	137.1	159.3	175.7	164.5	158.6	148.9
Illinois	73.0	109.4	139.9	164.8	168.9	162.5	155.0
Indiana	72.7	103.5	134.1	159.9	151.5	143.8	136.7
Michigan	101.5	146.4	173.5	189.1	167.7	172.8	158.2
Ohio	159.2	183.0	188.5	193.5	171.2	158.3	150.9
Wisconsin	56.6	92.2	129.0	145.0	139.0	130.8	116.4
West North Central	130.0	151.0	158.9	167.9	152.6	131.2	116.3
Iowa	117.6	149.3	162.1	167.8	152.2	127.7	114.2
Kansas	149.4	157.0	156.6	165.8	150.4	126.5	111.9
Minnesota	126.0	145.9	167.3	175.6	159.7	138.9	124.9
Missouri	124.4	149.9	152.0	165.5	148.9	133.2	116.6
Nebraska	140.0	160.5	162.3	167.5	155.2	128.9	112.9
North Dakota	95.8	118.8	164.5	171.4	163.0	127.6	114.6
South Dakota	125.8	145.8	158.5	153.2	145.0	117.4	105.1
South Atlantic	78.9	93.1	95.9	111.0	96.3	93.7	92.7
Delaware	37.2	63.7	85.6	109.0	93.6	93.4	90.7
District of Columbia	68.3	79.8	87.8	102.7	95.9	103.5	103.6
Florida	23.3	19.6	27.1	48.2	38.6	44.9	38.0
Georgia	97.0	110.9	103.1	123.9	103.5	97.1	96.2
Maryland	62.8	84.3	95.3	110.6	97.5	96.6	97.9
North Carolina	41.2	78.2	89.8	112.1	92.7	97.1	96.4
South Carolina	36.3	68.8	75.9	91.1	72.7	74.7	74.8
Virginia	62.6	83.4	94.0	111.1	100.1	99.7	101.9
West Virginia	156.9	163.5	159.0	161.0	149.4	131.3	127.2
East South Central	105.5	118.1	111.5	126.0	107.1	102.3	96.7
Alabama	86.7	96.6	90.7	106.9	91.2	86.7	84.5
Kentucky	136.5	153.3	144.9	157.4	136.7	130.3	121.9
Mississippi	86.3	97.7	89.0	105.5	86.6	85.9	80.7
Tennessee	104.2	118.6	114.3	126.5	105.5	101.6	94.5
West South Central	83.4	96.5	92.2	104.6	95.9	84.4	76.6
Arkansas	104.6	121.7	113.8	133.0	114.0	95.6	87.3
Louisiana	74.7	87.4	82.1	95.9	81.9	77.2	74.0
Oklahoma	108.2	114.9	116.3	126.8	120.6	103.8	91.8
Texas	76.4	91.2	86.3	97.6	91.5	80.2	72.0
Mountain	132.6	138.2	140.2	140.5	131.0	103.6	89.4
Arizona	68.1	75.3	77.0	78.4	77.3	58.9	52.1
Colorado	147.3	150.1	153.4	155.0	147.2	119.7	96.5
Idaho	33.3	100.5	118.0	114.7	110.7	79.5	71.5
Montana	184.3	175.9	185.0	175.5	171.2	126.1	111.1
Nevada	62.4	88.8	103.1	112.5	113.2	87.4	81.6
New Mexico	113.2	133.1	134.4	130.3	126.6	99.1	86.8
Utah	175.7	202.4	201.2	212.1	180.1	139.0	125.4
Wyoming	189.3	173.9	173.0	180.5	161.7	134.5	113.4
Pacific	89.7	92.3	104.6	105.7	109.9	81.6	73.8
Alaska	b	b	230.0	199.3	221.3	216.9	204.3
California	91.5	93.2	105.0	104.6	109.4	80.5	72.9
Hawaii	b	25.2	27.2	33.7	29.1	25.0	23.1
Oregon	50.4	78.9	90.6	113.2	107.0	79.8	72.1
Washington	33.6	105.1	115.5	128.3	122.0	95.5	83.9

a. Customer data is based on yearly averages.

b. Not available.

R—Revised.

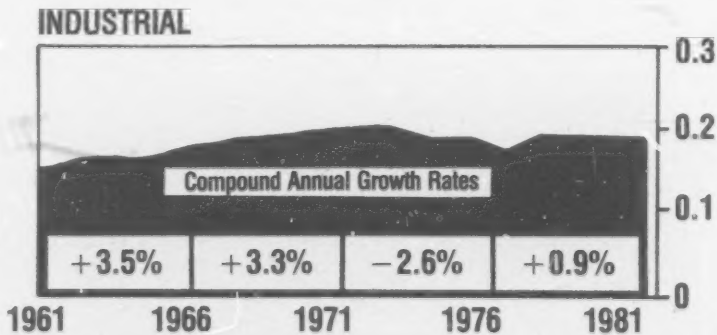
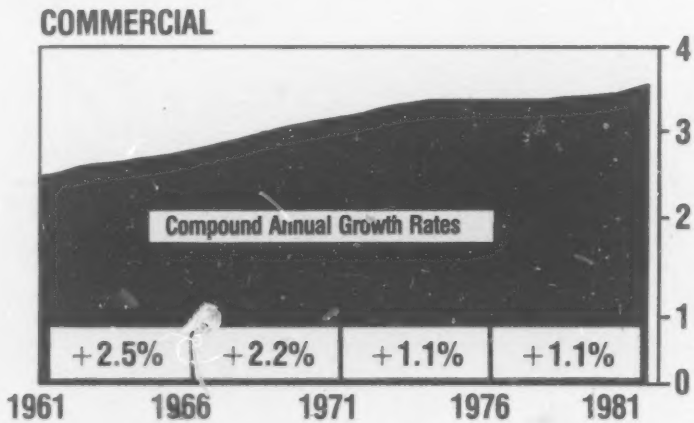
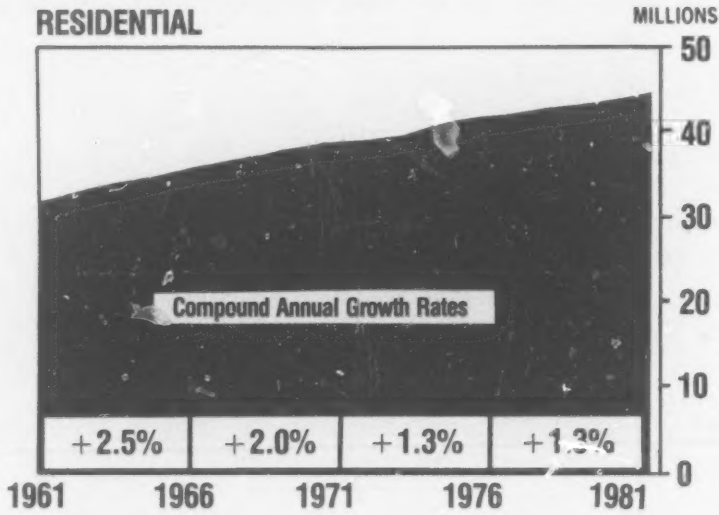
SECTION VII CUSTOMERS

	Average Customers	
	1981	% Change 81/80
Gas Utility Industry		
(Thousands)		
Total	47,844.1	+1.4
Residential	44,053.6	+1.4
Commercial	3,554.5	+1.7
Industrial	187.9	+0.1
Other	48.1	+0.4

GAS FACTS

CHART 12

GAS UTILITY INDUSTRY CUSTOMERS



CUSTOMERS

TABLE 61
GAS UTILITY INDUSTRY CUSTOMERS, BY CLASS OF SERVICE,
YEARLY AVERAGES, 1955-1981^a

(Thousands)					
Year	Total	Residential	Commercial	Industrial ^b	Other ^b
1955	28,478.8	26,282.6	2,047.5	121.2	27.5
1956	29,536.6	27,241.0	2,140.3	125.8	29.5
1957	30,476.0	28,101.2	2,211.1	132.0	31.7
1958	31,242.1	28,786.5	2,286.6	134.2	34.8
1959	32,065.9	29,529.6	2,363.9	136.3	36.1
1960	33,053.8	30,417.5	2,458.3	140.6	37.4
1961	33,830.5	31,118.2	2,528.9	146.7	36.7
1962	34,683.4	31,893.0	2,597.9	155.9	36.6
1963	35,551.0	32,710.8	2,639.6	161.7	38.9
1964	36,463.3	33,551.2	2,712.2	159.4	40.5
1965	37,337.5	34,340.8	2,789.7	166.2	40.8
1966	38,228.4	35,141.8	2,868.2	173.9	44.5
1967	39,076.5	35,915.1	2,933.6	181.2	46.6
1968	39,930.0	36,691.1	3,003.6	188.1	47.2
1969	40,854.0	37,538.3	3,073.8	192.7	49.2
1970	41,482.1	38,097.0	3,130.9	199.1	55.1
1971	42,241.9	38,788.7	3,199.0	204.7	49.5
1972	42,954.8	39,428.0	3,263.6	209.2	54.1
1973	43,711.2	40,115.5	3,331.4	209.1	55.2
1974	44,267.2	40,626.7	3,392.0	193.8	54.7
1975	44,554.5	40,950.3	3,366.9	183.5	53.8
1976	44,941.4	41,337.6	3,371.5	179.7	52.6
1977	45,274.0	41,682.4	3,371.0	173.3	47.3
1978	45,788.9	42,183.2	3,369.8 ^c	189.2 ^c	46.7
1979	46,478.3	42,821.3	3,422.8	189.4	44.8
1980 ^R	47,165.3	43,434.5	3,495.2	187.7	47.9
1981	47,844.1	44,053.6	3,554.5	187.9	48.1

a. Excludes data for Alaska prior to 1961 and Hawaii prior to 1960.

b. Prior to 1976, "Other" electric generation customers included in the "Other" class of service. For 1976 and beyond all electric generation customers included in the Industrial category.

c. Reclassification of customers.

R—Revised.

GAS FACTS

TABLE 62
GAS UTILITY INDUSTRY CUSTOMERS, BY STATE AND CLASS OF SERVICE,
AVERAGES, 1981

Division and State	Total	(Thousands)			
		Class of Service			
		Residential	Commercial	Industrial	Other
United States	47,844.1	44,053.6	3,554.5	187.9	48.1
New England	1,762.1	1,621.5	127.7	9.1	3.7
Connecticut	412.2	376.2	33.5	2.4	0.1
Maine	15.3	12.8	2.4	0.1	0.0
Massachusetts	1,093.5	1,012.1	73.3	5.0	3.1
New Hampshire	52.2	46.0	5.9	0.2	0.2
Rhode Island	173.2	160.6	11.2	1.4	0.0
Vermont	15.7	13.9	1.4	a	0.5
Middle Atlantic	8,155.6	7,567.4	553.6	23.7	10.9
New Jersey	1,850.1	1,672.3	171.2	6.6	a
New York	3,943.3	3,690.2	233.8	10.9	8.5
Pennsylvania	2,362.2	2,204.9	148.6	6.2	2.5
East North Central	10,897.3	10,058.1	788.1	47.6	3.6
Illinois	3,317.8	3,054.2	243.9	19.1	0.6
Indiana	1,266.8	1,159.6	102.2	4.5	0.5
Michigan	2,484.4	2,311.2	163.5	9.7	a
Ohio	2,768.1	2,564.9	194.4	6.4	2.4
Wisconsin	1,060.2	968.2	84.0	7.9	a
West North Central	4,222.4	3,811.9	393.2	15.2	2.1
Iowa	756.2	673.5	80.5	1.9	3.3
Kansas	735.5	663.1	67.2	4.9	0.3
Minnesota	836.5	760.7	70.3	5.0	0.5
Missouri	1,230.3	1,135.2	93.5	0.8	0.8
Nebraska	469.7	407.5	60.1	1.9	0.2
North Dakota	88.6	78.2	10.3	0.1	a
South Dakota	105.6	93.6	11.4	0.6	0.0
South Atlantic	4,107.8	3,762.0	325.7	13.8	6.3
Delaware	82.7	77.6	4.8	0.2	0.1
District of Columbia	147.8	132.4	15.4	0.0	0.0
Florida	441.9	404.6	35.5	0.8	1.0
Georgia	1,053.6	975.2	75.3	2.3	0.9
Maryland	783.0	728.0	50.3	4.7	0.1
North Carolina	385.2	339.8	43.0	2.0	0.4
South Carolina	286.2	256.2	25.6	1.2	3.2
Virginia	533.4	487.0	43.5	2.3	0.6
West Virginia	393.8	361.2	32.3	0.4	a
East South Central	2,219.5	2,001.0	201.3	6.8	10.5
Alabama	674.1	620.8	49.1	2.0	2.2
Kentucky	630.1	572.8	54.6	1.3	1.4
Mississippi	400.3	359.7	37.4	1.2	2.0
Tennessee	515.0	447.7	60.1	2.3	5.0
West South Central	5,593.4	5,099.5	461.3	25.4	7.3
Arkansas	491.9	435.9	54.0	1.9	0.1
Louisiana	1,006.7	935.5	67.6	2.4	1.2
Oklahoma	834.2	754.7	75.7	3.6	0.2
Texas	3,260.6	2,973.4	264.0	17.6	5.7
Mountain	2,732.6	2,482.4	238.6	8.3	3.3
Arizona	585.2	539.4	43.0	2.2	0.5
Colorado	872.7	779.0	91.9	1.7	0.1
Idaho	110.0	94.6	15.1	0.2	0.0
Montana	184.9	164.3	20.1	0.5	a
Nevada	175.9	169.8	6.0	0.1	a
New Mexico	337.7	301.7	30.5	2.9	2.6
Utah	386.5	362.3	23.6	0.6	a
Wyoming	79.9	71.3	8.4	0.2	a
Pacific	8,153.3	7,649.9	464.9	38.1	0.4
Alaska	45.5	39.9	4.9	0.7	0.0
California	7,410.7	6,998.6	378.6	33.1	0.4
Hawaii	32.7	28.7	2.3	1.7	0.0
Oregon	283.9	248.6	34.7	0.6	0.0
Washington	380.6	334.2	44.3	2.1	a

a. Less than .05.

CUSTOMERS

TABLE 63
GAS UTILITY INDUSTRY AVERAGE CUSTOMERS, BY STATE, 1955-1981^a

(Thousands)							
Division and State	1955	1960	1965	1970	1975 ^R	1980 ^R	1981
United States	28,478.8	33,053.8	37,337.5	41,482.1	44,554.5	47,165.3	47,844.1
New England	1,616.5	1,622.6	1,641.6	1,692.3	1,692.5	1,734.6	1,762.1
Connecticut	372.1	376.7	378.8	393.7	392.5	405.0	412.2
Maine	38.7	33.4	28.5	23.4	18.1	15.0	15.3
Massachusetts	988.3	1,002.3	1,024.7	1,055.3	1,055.4	1,079.3	1,093.5
New Hampshire	36.2	37.4	40.2	44.1	45.4	50.9	52.2
Rhode Island	159.9	155.9	154.5	161.4	164.6	168.9	173.2
Vermont	21.3	16.9	14.9	14.4	16.6	15.4	15.7
Middle Atlantic	7,180.5	7,607.6	7,919.6	8,192.1	8,230.3	8,111.4	8,155.6
New Jersey	1,360.7	1,504.9	1,640.6	1,763.1	1,815.1	1,849.1	1,850.1
New York	3,776.3	3,953.5	4,076.4	4,125.6	4,102.5	3,925.5	3,943.3
Pennsylvania	2,043.5	2,149.2	2,202.5	2,303.4	2,312.7	2,336.8	2,362.2
East North Central	6,322.8	7,318.9	8,400.3	9,508.7	10,253.1	10,777.8	10,897.3
Illinois	1,966.7	2,279.4	2,634.6	2,938.4	3,134.2	3,300.9	3,317.8
Indiana	674.6	780.0	933.8	1,084.4	1,187.7	1,244.4	1,266.8
Michigan	1,298.7	1,502.1	1,732.9	2,018.5	2,234.5	2,443.3	2,484.4
Ohio	1,908.6	2,208.4	2,424.2	2,644.5	2,757.8	2,746.5	2,768.1
Wisconsin	474.2	549.0	674.8	822.9	939.0	1,042.7	1,060.2
West North Central	2,281.3	2,655.5	3,074.7	3,499.9	3,820.4	4,126.5	4,222.4
Iowa	364.7	440.4	541.9	642.1	691.6	745.4	756.2
Kansas	477.8	532.8	586.5	643.1	669.8	723.0	735.5
Minnesota	408.4	476.1	560.9	640.9	726.8	809.4	836.5
Missouri	706.1	816.8	933.4	1,068.2	1,167.1	1,218.4	1,230.3
Nebraska	244.9	288.4	330.2	367.7	400.5	442.4	469.7
North Dakota	31.4	39.4	47.4	55.2	71.3	85.7	88.6
South Dakota	48.0	61.6	74.4	82.6	93.1	102.4	105.6
South Atlantic	2,011.0	2,507.3	2,995.6	3,528.9	3,861.9	4,028.3	4,107.8
Delaware	56.0	64.2	73.3	81.4	82.8	81.5	82.7
District of Columbia	181.9	177.3	172.4	162.8	155.4	148.6	147.8
Florida	184.2	244.1	294.2	370.1	391.8	433.0	441.9
Georgia	368.3	534.9	670.9	804.4	912.3	1,025.9	1,053.6
Maryland	477.0	558.7	639.6	712.5	774.6	773.5	783.0
North Carolina	75.2	121.6	193.2	285.2	338.0	366.7	385.2
South Carolina	47.9	87.0	154.7	233.3	283.1	282.3	286.2
Virginia	291.4	361.8	432.7	497.3	528.4	523.2	533.4
West Virginia	329.1	357.2	364.6	381.9	395.4	393.6	393.8
East South Central	1,129.8	1,470.9	1,699.6	1,947.2	2,139.2	2,212.4	2,219.5
Alabama	326.6	453.3	522.1	588.8	637.1	679.0	674.1
Kentucky	342.1	432.9	506.0	583.0	631.3	626.7	630.1
Mississippi	219.0	271.2	310.6	347.3	380.3	397.4	400.3
Tennessee	242.1	313.5	360.9	428.1	490.5	509.3	515.0
West South Central	3,184.8	3,840.3	4,329.9	4,758.5	5,092.0	5,509.8	5,593.4
Arkansas	236.3	299.1	362.1	419.3	461.4	489.9	491.9
Louisiana	551.3	701.2	804.7	871.3	935.9	1,002.3	1,006.7
Oklahoma	536.5	602.8	648.7	697.6	740.5	816.4	834.2
Texas	1,860.7	2,237.2	2,514.4	2,770.3	2,954.2	3,201.2	3,260.6
Mountain	924.4	1,267.8	1,587.3	1,892.9	2,311.6	2,653.7	2,732.6
Arizona	210.2	300.3	374.1	447.5	554.1	579.1	585.2
Colorado	296.8	388.4	485.7	586.5	688.8	850.1	872.7
Idaho	0.5	27.0	52.2	79.0	107.5	108.6	110.0
Montana	93.7	118.6	137.6	150.8	173.4	182.7	184.9
Nevada	14.5	24.6	47.8	72.4	112.2	168.2	175.9
New Mexico	136.5	176.6	203.8	231.8	278.9	327.6	337.7
Utah	116.3	166.5	211.9	243.8	297.4	361.0	386.5
Wyoming	55.9	65.8	74.2	81.1	99.2	76.3	79.9
Pacific	3,827.7	4,762.9	5,688.9	6,461.6	7,153.5	8,010.8	8,153.3
Alaska	b	b	6.1	17.4	29.1	42.1	45.5
California	3,673.5	4,506.6	5,311.1	5,919.4	6,495.1	7,286.3	7,410.7
Hawaii	b	39.8	36.2	36.1	34.8	33.2	32.7
Oregon	89.7	105.6	146.2	197.5	248.2	275.3	283.9
Washington	64.5	110.9	189.3	291.2	346.3	373.9	380.6

a. Excludes customers purchasing for resale.

b. Not available.

R—Revised.

GAS FACTS

TABLE 64
GAS UTILITY INDUSTRY HOUSEHEATING CUSTOMERS AND HEATING SATURATIONS^a
BY CENSUS DIVISION, 1955-1981 YEARLY AVERAGES^b
(Thousands)

Census Division	1955			1960			1965			1970		
	Customers	Percent		Customers	Percent		Customers	Percent		Customers	Percent	
United States	14,711	56.0		20,739	68.2		26,297	76.1		31,209	81.9	
New England	146	9.6		386	25.3		583	36.8		779	48.6	
Middle Atlantic	1,665	25.0		2,475	35.1		3,212	43.2		3,827	50.3	
East North Central	2,694	45.6		4,369	64.3		6,091	77.6		7,528	85.6	
West North Central	1,454	69.7		1,999	82.6		2,485	88.6		2,916	92.2	
South Atlantic	1,042	56.4		1,533	66.7		2,073	74.9		2,599	80.9	
East South Central	782	76.7		1,161	87.4		1,422	92.4		1,695	96.4	
West South Central	2,849	99.2		3,457	99.7		3,900	99.5		4,278	99.0	
Mountain	757	91.8		1,081	95.5		1,366	96.4		1,646	97.3	
Pacific	3,322	93.7		4,278	97.3		5,165	97.3		5,941	98.3	

Census Division	1975			1979			1980 ^R			1981		
	Customers	Percent		Customers	Percent		Customers	Percent		Customers	Percent	
United States	34,372	84.1		37,212	86.8		38,117	87.8		38,897	88.3	
New England	857	54.8		947	60.2		1,009	63.1		1,069	65.9	
Middle Atlantic	4,128	54.1		4,299	57.3		4,515	60.0		4,658	61.6	
East North Central	8,432	89.4		8,944	91.3		9,170	92.1		9,389	93.3	
West North Central	3,261	94.5		3,546	96.3		3,590	96.3		3,689	96.7	
South Atlantic	2,970	84.2		3,230	88.6		3,300	89.4		3,410	90.6	
East South Central	1,968	96.5		1,947	98.3		1,967	98.5		1,961	98.0	
West South Central	4,496	97.1		4,894	99.0		4,998	99.5		5,071	99.4	
Mountain	2,040	98.0		2,345	98.8		2,365	98.2		2,444	98.5	
Pacific	6,320	94.6		7,060	95.6		7,203	95.8		7,206	94.1	

a. Percentages refer to proportion of total residential customers, within specified areas, using gas for heating.

b. Excludes data for Alaska prior to 1961 and Hawaii prior to 1960.

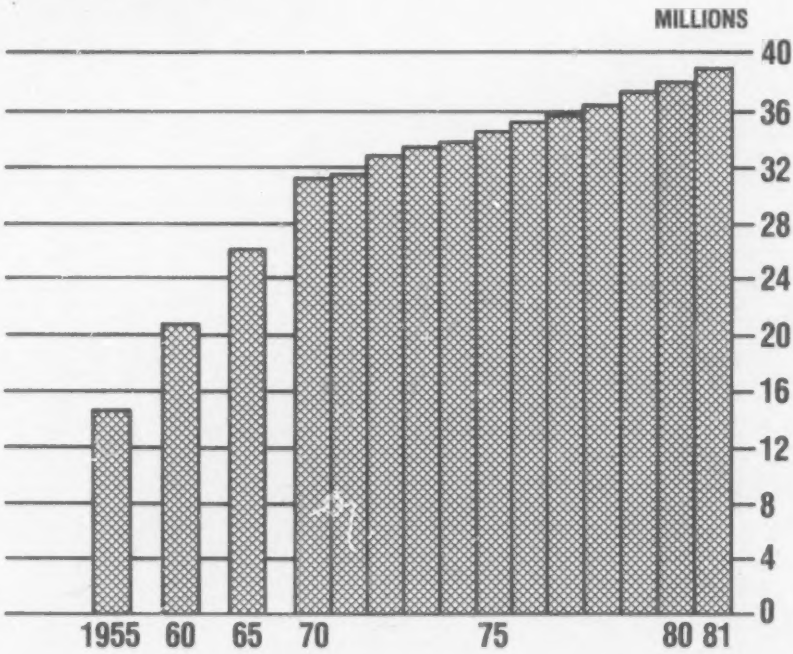
R—Revised.

Source: A.G.A. Gas Househeating Survey. Data represent average number of customers developed from number of year-end customers as shown in survey.

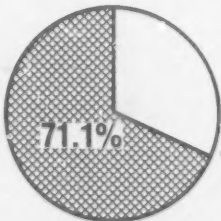
CUSTOMERS

CHART 13

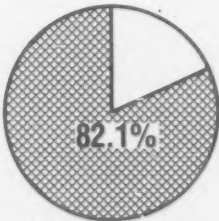
**GAS UTILITY HOUSEHEATING
CUSTOMERS**



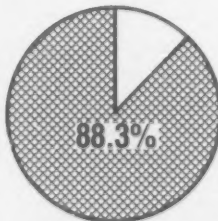
**PERCENT OF RESIDENTIAL CUSTOMERS
USING GAS FOR HOUSEHEATING**



1961



1971



1981

GAS FACTS

TABLE 65
GAS UTILITY INDUSTRY HOUSEHEATING CUSTOMERS, BY STATE
YEARLY AVERAGES FOR 1965-1981

Division and State	1965	1970	1975	1980 ^R	1981	
					Number	Saturation*
United States	26,296.0	31,208.7	34,371.4	38,117.7	35,896.3	88.3
New England	582.9	778.8	857.1	1,009.0	1,069.3	65.9
Connecticut	137.8	181.0	195.8	216.4	240.6	63.9
Maine	5.0	5.7	4.8	6.6	9.1	71.3
Massachusetts	354.5	443.3	531.5	635.7	662.4	65.4
New Hampshire	19.9	24.2	28.0	36.0	36.6	79.6
Rhode Island	65.4	116.0	86.3	103.1	109.1	67.9
Vermont	0.3	8.6	10.7	11.2	11.5	82.4
Middle Atlantic	3,212.4	3,827.2	4,127.7	4,514.6	4,657.7	61.6
New Jersey	550.8	713.7	793.4	942.8	987.5	59.0
New York	1,328.5	1,536.7	1,686.2	1,796.6	1,847.9	49.8
Pennsylvania	1,333.1	1,576.8	1,648.1	1,775.2	1,822.3	82.6
East North Central	6,090.6	7,527.9	8,432.0	9,169.8	9,388.8	93.3
Illinois	1,671.0	2,107.4	2,390.9	2,614.6	2,683.1	87.8
Indiana	588.9	813.0	947.6	1,052.8	1,108.0	95.5
Michigan	1,310.6	1,647.3	1,901.2	2,162.4	2,203.7	95.3
Ohio	2,108.5	2,379.2	2,482.0	2,509.0	2,532.8	98.7
Wisconsin	411.6	581.0	710.3	831.0	861.2	88.9
West North Central	2,485.0	2,915.5	3,260.7	3,590.3	3,688.9	96.7
Iowa	419.7	515.8	572.9	632.9	650.9	96.6
Kansas	513.0	563.4	595.4	649.7	658.8	99.3
Minnesota	430.6	513.1	598.3	691.0	720.8	94.7
Missouri	762.4	915.6	1,022.8	1,082.9	1,094.9	96.4
Nebraska	266.7	298.4	336.2	375.2	398.9	97.9
North Dakota	33.0	41.8	56.5	70.6	73.2	93.5
South Dakota	59.6	67.4	78.6	88.0	91.4	97.6
South Atlantic	2,072.6	2,599.2	2,969.9	3,300.4	3,410.2	90.6
Delaware	31.5	42.5	46.6	52.0	50.4	64.9
District of Columbia	80.1	83.2	86.1	92.0	94.1	71.0
Florida	182.0	247.9	261.7	368.4	377.3	93.2
Georgia	595.0	718.9	810.7	946.1	973.7	99.8
Maryland	357.0	443.3	528.8	550.3	563.8	77.4
North Carolina	138.8	209.6	274.4	288.2	324.3	95.4
South Carolina	106.8	179.7	226.9	243.8	253.5	98.9
Virginia	265.5	339.0	378.3	402.9	416.1	85.4
West Virginia	315.9	335.1	356.4	356.7	357.0	98.8
East South Central	1,421.7	1,695.1	1,868.0	1,967.1	1,960.9	98.0
Alabama	449.4	539.2	579.9	625.3	612.4	98.6
Kentucky	402.5	490.1	538.0	562.9	565.1	98.6
Mississippi	272.8	311.0	341.8	356.8	359.7	100.0
Tennessee	297.0	354.8	408.3	422.1	423.7	94.6
West South Central	3,899.5	4,278.3	4,496.0	4,998.4	5,070.7	99.4
Arkansas	316.5	371.0	405.8	433.9	434.8	99.7
Louisiana	739.3	737.3	859.3	931.4	935.0	99.9
Oklahoma	583.9	628.3	665.7	731.9	746.8	98.9
Texas	2,259.8	2,541.7	2,565.2	2,901.2	2,954.1	99.3
Mountain	1,366.3	1,646.2	2,040.4	2,365.1	2,444.1	98.5
Arizona	320.3	390.0	492.4	509.1	510.5	94.6
Colorado	418.2	508.7	610.9	759.1	779.0	100.0
Idaho	39.5	65.9	91.4	82.2	91.5	96.7
Montana	115.2	126.9	147.1	161.9	163.7	99.6
Nevada	43.5	65.9	100.7	155.3	164.3	96.7
New Mexico	179.6	203.4	239.4	291.7	301.7	100.0
Utah	187.2	217.6	272.6	338.3	362.3	100.0
Wyoming	62.8	67.8	85.9	67.5	71.1	99.7
Pacific	5,165.0	5,940.5	6,319.6	7,203.0	7,205.9	94.1
Alaska	4.9	14.4	24.0	36.2	39.4	98.6
California	4,906.1	5,506.9	5,794.5	6,620.2	6,610.2	94.4
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0
Oregon	106.7	166.3	206.7	225.1	228.3	91.8
Washington	147.3	252.9	294.4	321.5	328.0	98.1

*Percentages refer to proportion of residential gas customers using gas for heating.

R—Revised.

Source: A.G.A. Gas Househeating Survey. Data represent average number of customers developed from number of year-end customers as shown in survey.

CUSTOMERS

TABLE 66
GAS UTILITY INDUSTRY AVERAGE CUSTOMERS,
BY QUARTERS, 1955-1981

(Thousands)

Year and Quarter	Total	Residential	Commercial	Industrial*	Other*
1955					
First	27,969	25,768	2,055	119	27
Second	27,954	25,818	1,988	121	27
Third	28,084	25,979	1,957	121	27
Fourth	28,946	26,691	2,105	123	27
1960					
First	32,882	30,220	2,486	139	37
Second	32,685	30,098	2,409	141	37
Third	32,638	30,099	2,363	140	36
Fourth	33,508	30,802	2,524	141	41
1965					
First	37,174	34,156	2,814	163	41
Second	36,963	34,014	2,743	165	41
Third	36,932	34,021	2,704	167	40
Fourth	37,967	34,886	2,870	169	42
1970					
First	41,491	38,063	3,175	199	54
Second	41,419	38,058	3,109	199	53
Third	41,080	37,773	3,054	198	55
Fourth	41,939	38,494	3,186	201	58
1973					
First	43,789	40,135	3,372	208	72
Second	43,422	39,865	3,298	213	45
Third	43,432	39,910	3,268	201	53
Fourth	44,201	40,551	3,387	215	46
1974					
First	44,390	40,713	3,430	194	53
Second	43,978	40,371	3,360	194	53
Third	44,011	40,433	3,331	192	55
Fourth	44,690	40,990	3,446	196	58
1975					
First	44,762	41,099	3,406	194	63
Second	44,386	40,806	3,348	181	51
Third	44,233	40,686	3,322	177	48
Fourth	44,839	41,210	3,393	182	54
1976					
First	45,088	41,437	3,417	181	53
Second	44,924	41,311	3,380	180	53
Third	44,628	41,084	3,313	179	52
Fourth	45,128	41,519	3,377	179	53
1977					
First	45,689	42,005	3,454	175	55
Second	45,047	41,476	3,347	173	51
Third	44,633	41,140	3,282	170	41
Fourth	45,725	42,108	3,400	175	42
1978					
First	45,931	42,285	3,410	190	47
Second	45,761	42,149	3,376	190	47
Third	45,468	41,918	3,316	188	46
Fourth	45,996	42,382	3,378	189	47
1979					
First	46,553	42,869	3,449	190	45
Second	46,410	42,754	3,422	190	45
Third	46,242	42,635	3,375	189	44
Fourth	46,708	43,027	3,446	189	45
1980 ^R					
First	47,334	43,550	3,547	189	48
Second	47,130	43,388	3,506	188	48
Third	46,814	43,155	3,424	187	48
Fourth	47,383	43,645	3,504	187	47
1981					
First	48,053	44,217	3,598	189	49
Second	47,837	44,043	3,557	189	48
Third	47,473	43,746	3,493	187	47
Fourth	48,013	44,209	3,570	186	48

*Prior to 1976, "Other" electric generation customers included in the "Other" class of service. For 1976 and beyond all electric generation customers included in the Industrial category.

R—Revised.

SECTION VIII SALES-QUANTITIES

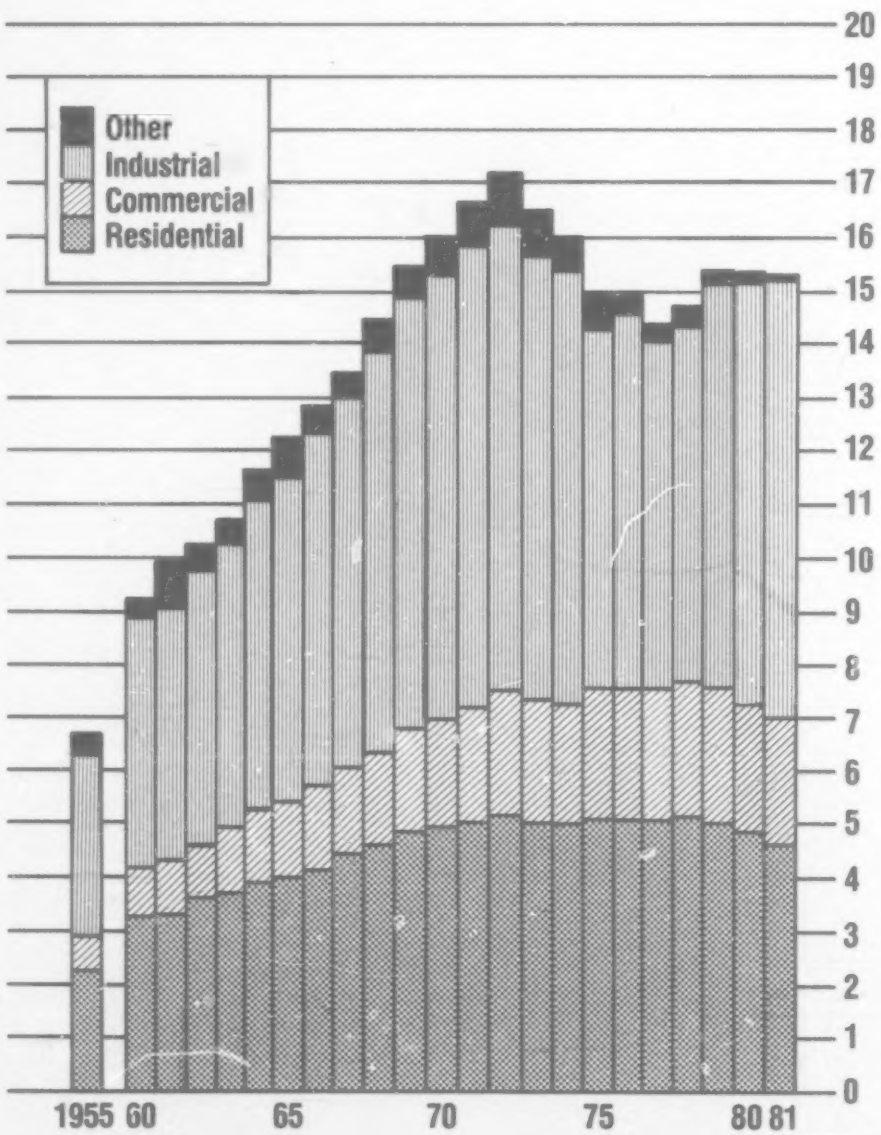
	<u>1981</u>	<u>% Change 81/80</u>
Gas Utility Industry		
(Trillions of Btu)		
Total	15,379.9	-0.3
Residential	4,600.6	-4.5
Commercial	2,360.4	-3.4
Industrial	8,220.1	+3.3
Other	198.8	-1.3
Resale	15,969.0	+1.8
Electric Generation	2,236.7	+6.7

GAS FACTS

CHART 14

GAS UTILITY INDUSTRY SALES BY CLASS OF SERVICE

QUADRILLIONS OF BTU



REFERENCE: TABLE 67

SALES—QUANTITIES

TABLE 67
GAS UTILITY INDUSTRY SALES, BY CLASS OF SERVICE,
1955-1981^a

(Trillions of Btu)

Year	Total	Residential	Commercial	Industrial ^b	Other ^b
1955	6,658.6	2,238.7	602.9	3,535.1	281.9
1956	7,254.2	2,464.3	655.8	3,868.7	265.4
1957	7,703.5	2,598.5	698.9	4,047.6	358.5
1958	8,028.6	2,812.5	764.9	4,076.4	374.8
1959	8,791.8	2,973.9	827.5	4,563.1	427.3
1960	9,287.7	3,188.1	919.8	4,709.4	470.4
1961	9,589.0	3,321.0	988.1	4,785.6	494.3
1962	10,234.8	3,536.9	1,092.9	5,100.1	504.9
1963	10,766.3	3,668.0	1,136.6	5,438.1	523.6
1964	11,591.2	3,869.7	1,273.5	5,912.0	536.0
1965	11,980.3	3,999.0	1,344.8	6,146.5	490.0
1966	12,859.1	4,175.4	1,462.8	6,653.3	567.6
1967	13,488.3	4,365.3	1,577.6	7,014.3	531.1
1968	14,472.4	4,552.7	1,704.9	7,595.1	619.7
1969	15,391.6	4,820.4	1,878.1	8,135.8	557.3
1970	16,043.5	4,923.7	2,006.6	8,439.2	674.0
1971	16,685.7	5,040.1	2,155.5	8,645.5	844.7
1972	17,082.1	5,141.8	2,275.7	8,775.7	888.0
1973	16,479.9	4,993.6	2,280.8	8,370.8	834.7
1974	16,000.3	4,864.8	2,293.4	8,153.2	689.0
1975	14,862.9	4,991.0	2,386.8	6,837.1	648.0
1976 ^R	14,813.5	5,014.2	2,422.6	7,192.0	184.6
1977 ^R	14,340.9	4,946.3	2,409.4	6,796.4	188.9
1978 ^R	14,748.4	5,106.7	2,499.5	6,931.5	210.7
1979 ^R	15,440.3	5,083.1	2,485.8	7,641.4	230.0
1980 ^R	15,419.4	4,818.9	2,444.1	7,954.9	201.5
1981	15,379.9	4,600.6	2,360.4	8,220.1	198.8

a. Excludes data for Alaska prior to 1961 and Hawaii prior to 1960.

b. Prior to 1976, "Other" electric generation (see Table 74) is included in the "Other" class of service. For 1976 and beyond all electric generation is included in the Industrial category.

R--Revised.

GAS FACTS

TABLE 68
GAS UTILITY INDUSTRY SALES,
BY STATE AND CLASS OF SERVICE, 1981

(Trillions of Btu)

Division and State	Total	Class of Service				Average Btu Value	Electric Generation Included ^b
		Residential	Commercial	Industrial ^a	Other		
United States	15,379.9	4,600.6	2,360.4	8,220.1	198.8	1,022.5	2,236.7
New England	311.6	148.7	86.4	73.6	2.9	1,023.6	10.1
Connecticut	78.2	34.1	23.0	21.0	0.1	1,036.4	0.0
Maine	2.3	0.6	1.0	0.7	0.0	1,000.2	0.0
Massachusetts	187.0	93.4	53.0	38.0	2.5	1,024.3	7.5
New Hampshire	10.2	4.5	3.4	2.1	0.1	1,005.8	0.0
Rhode Island	29.4	14.7	5.0	9.7	0.0	997.4	2.6
Vermont	4.5	1.4	0.9	2.1	0.2	992.9	0.0
Middle Atlantic	1,719.0	792.0	316.0	573.9	37.1	1,024.4	26.4
New Jersey	335.4	150.4	76.6	106.4	2.0	1,032.8	18.6
New York	639.5	348.4	118.2	148.0	24.9	1,022.6	0.1
Pennsylvania	744.1	293.1	121.1	319.6	10.2	1,022.0	7.7
East North Central	3,503.7	1,497.1	682.7	1,313.6	10.2	1,014.3	34.9
Illinois	1,053.3	473.5	223.0	356.4	0.4	1,019.7	12.6
Indiana	480.5	158.5	67.6	251.7	2.7	989.4	0.2
Michigan	788.7	365.5	175.5	247.7	c	1,012.7	13.3
Ohio	861.4	386.9	159.1	308.8	6.7	1,025.0	1.3
Wisconsin	319.7	112.7	57.6	149.1	0.4	1,009.0	7.5
West North Central	1,286.6	443.3	270.6	560.5	12.2	1,002.7	45.4
Iowa	242.1	76.9	47.4	117.1	0.7	1,003.5	1.8
Kansas	322.0	74.2	44.8	197.7	5.2	996.7	35.8
Minnesota	254.5	95.0	44.9	109.5	5.1	996.5	1.7
Missouri	287.7	132.4	85.1	69.1	1.2	1,016.9	2.3
Nebraska	137.8	46.0	32.1	59.6	0.1	998.4	3.8
North Dakota	20.5	9.0	9.7	1.7	c	995.1	c
South Dakota	22.1	9.8	6.7	5.6	0.0	999.1	0.0
South Atlantic	1,315.5	348.7	234.0	699.0	33.8	1,024.9	102.0
Delaware	23.8	7.0	3.7	12.2	0.8	1,035.0	0.0
Dist. of Columbia	28.8	13.7	15.0	0.0	0.0	1,014.0	0.0
Florida	237.8	15.4	29.2	189.5	3.7	1,045.9	97.9
Georgia	303.8	93.8	54.6	152.6	2.7	1,026.6	2.9
Maryland	165.5	71.3	31.2	62.9	0.1	1,012.2	0.0
North Carolina	148.6	32.8	24.3	90.6	0.9	1,022.4	0.6
South Carolina	133.5	19.2	15.6	75.1	23.6	1,016.6	0.4
Virginia	143.8	49.6	36.1	56.1	2.0	1,018.4	0.0
West Virginia	130.1	45.9	24.1	60.0	0.1	1,019.3	0.2
East South Central	775.6	193.6	105.3	459.6	17.1	1,022.4	61.0
Alabama	217.7	52.4	26.3	138.3	0.7	1,033.0	0.0
Kentucky	168.5	69.8	29.9	63.0	5.9	1,008.6	0.0
Mississippi	179.2	29.0	14.2	128.3	7.7	1,020.3	60.0
Tennessee	210.2	42.3	34.9	130.1	2.9	1,025.5	1.1
West South Central	3,693.5	390.5	229.8	2,998.9	67.2	1,031.5	1,143.1
Arkansas	214.9	38.0	24.2	151.3	1.3	963.5	4.0
Louisiana	574.2	69.2	27.0	458.2	19.8	1,047.5	159.0
Oklahoma	453.0	69.3	40.9	341.9	0.9	1,023.3	144.3
Texas	2,441.3	214.0	137.7	2,044.5	45.2	1,030.6	835.9
Mountain	770.0	221.9	139.9	392.9	15.3	979.8	136.4
Arizona	142.2	28.1	20.0	92.1	2.0	1,048.5	44.6
Colorado	196.8	75.2	57.4	63.2	1.0	877.4	12.8
Idaho	41.5	6.8	8.2	26.5	0.0	1,066.4	0.0
Montana	48.2	18.3	12.6	15.5	1.9	979.5	c
Nevada	76.7	13.9	8.5	54.0	0.3	1,037.6	42.2
New Mexico	116.6	26.2	14.2	66.2	10.0	1,054.6	36.8
Utah	107.5	45.4	13.8	48.3	c	932.3	0.0
Wyoming	40.4	8.1	5.1	27.1	0.1	922.4	0.0
Pacific	2,014.3	564.8	295.6	1,151.0	3.0	1,048.9	677.4
Alaska	30.4	8.1	3.4	18.9	0.0	1,004.9	14.6
California	1,776.9	510.0	245.9	1,018.4	2.6	1,049.1	662.2
Hawaii	3.2	0.7	0.9	1.7	0.0	960.1	0.0
Oregon	75.1	17.9	15.5	41.7	0.0	1,056.3	0.2
Washington	128.6	28.0	29.9	70.4	0.4	1,054.1	0.4

a. Includes Electric Generation.

b. Included in Industrial.

c. Less than 0.05 trillion Btu.

SALES—QUANTITIES

TABLE 69
GAS UTILITY INDUSTRY SALES, BY STATE, 1955-1981^a

(Trillions of Btu)

Division and State	1955	1960	1965	1970	1975	1979	1980 ^R	1981
United States	6,658.6	9,287.7	11,980.3	16,043.5	14,862.9	15,440.3	15,419.4	15,379.9
New England	65.4	120.5	172.0	236.7	243.5	285.6	298.2	311.6
Connecticut	17.4	31.5	44.0	61.4	61.0	68.7	73.4	78.2
Maine	1.3	1.3	1.3	1.8	2.0	1.9	2.2	2.3
Massachusetts	39.7	72.4	105.0	139.5	145.9	173.5	182.5	187.0
New Hampshire	1.4	3.0	4.3	6.7	7.8	8.9	9.5	10.2
Rhode Island	5.2	11.9	16.9	25.2	23.4	28.0	26.4	29.4
Vermont	0.4	0.4	0.5	2.1	3.4	4.7	4.1	4.5
Middle Atlantic	693.5	993.9	1,293.4	1,651.0	1,495.1	1,593.2	1,653.0	1,719.0
New Jersey	68.9	125.9	194.1	294.9	257.9	288.1	317.6	335.4
New York	233.0	358.0	475.6	595.9	581.9	588.2	600.8	639.5
Pennsylvania	391.6	510.0	623.7	760.2	655.4	716.9	734.7	744.1
East North Central	1,276.1	1,872.4	2,724.4	3,896.4	3,749.5	3,901.6	3,658.1	3,503.7
Illinois	386.4	509.5	746.5	1,140.3	1,112.4	1,193.5	1,099.7	1,053.3
Indiana	121.1	203.9	344.6	505.0	458.8	492.3	476.5	480.5
Michigan	193.4	357.2	545.3	839.4	885.8	889.4	850.0	788.7
Ohio	533.4	712.5	891.0	1,084.9	929.8	960.5	888.0	861.4
Wisconsin	41.8	89.3	197.0	326.8	362.7	365.9	343.9	319.7
West North Central	772.9	1,040.4	1,316.0	1,743.7	1,592.4	1,488.9	1,412.3	1,286.6
Iowa	105.9	157.7	205.6	292.5	298.8	267.2	255.8	242.1
Kansas	245.0	305.6	350.4	459.5	410.4	383.2	364.6	322.0
Minnesota	110.6	160.4	230.9	324.3	295.0	276.7	267.1	254.5
Missouri	192.6	257.2	333.2	421.0	344.5	349.9	326.8	287.7
Nebraska	96.3	126.7	153.7	197.8	187.2	160.3	152.5	137.8
North Dakota	5.2	8.5	15.6	18.9	24.7	25.1	21.6	20.5
South Dakota	17.5	24.3	26.6	29.7	31.8	26.5	23.9	22.1
South Atlantic	392.7	649.8	871.8	1,311.1	1,106.1	1,235.6	1,275.5	1,315.5
Delaware	2.8	8.9	16.6	24.3	19.3	20.8	22.7	23.8
District of Columbia	15.5	18.5	21.8	27.1	24.8	25.8	27.6	28.8
Florida	30.6	91.1	144.2	218.7	127.4	223.0	231.3	237.8
Georgia	136.0	188.5	210.3	333.8	312.5	292.8	299.7	303.8
Maryland	40.3	65.9	96.8	145.1	138.8	152.7	154.6	165.5
North Carolina	11.5	41.6	73.9	151.2	104.8	122.5	143.2	148.6
South Carolina	13.2	40.6	73.9	120.1	118.3	132.0	133.0	133.5
Virginia	40.0	64.3	91.3	133.9	116.0	128.2	134.8	143.8
West Virginia	102.8	130.4	143.0	156.9	144.3	137.9	128.6	130.1
East South Central	465.8	600.1	729.7	995.4	752.8	798.7	808.0	775.6
Alabama	149.3	180.3	224.8	290.0	227.9	234.1	224.6	217.7
Kentucky	82.7	126.6	142.1	189.9	180.0	184.4	175.9	168.5
Mississippi	118.2	146.2	177.1	265.6	141.3	162.9	191.5	179.2
Tennessee	115.6	147.0	185.7	249.9	203.5	217.2	216.0	210.2
West South Central	1,758.2	2,216.5	2,468.5	3,031.0	2,973.6	3,220.4	3,534.9	3,683.5
Arkansas	166.3	177.3	228.6	339.9	219.4	207.6	207.4	214.9
Louisiana	414.4	536.8	592.0	742.1	457.3	562.6	515.2	574.2
Oklahoma	187.5	248.8	255.0	275.6	417.9	490.7	472.3	453.0
Texas	990.0	1,253.6	1,332.9	1,673.4	1,878.9	1,959.5	2,340.0	2,441.3
Mountain	394.6	576.4	703.8	926.1	928.6	907.5	833.3	770.0
Arizona	78.5	110.9	127.3	168.1	144.4	147.0	136.4	142.2
Colorado	125.0	160.0	196.5	253.6	269.2	254.5	242.3	196.8
Idaho	0.0	22.0	34.8	43.1	51.2	50.4	45.4	41.5
Montana	43.5	51.3	67.4	78.8	79.8	64.8	54.1	48.2
Nevada	3.2	14.2	29.7	56.0	61.3	75.3	62.1	76.7
New Mexico	66.9	112.9	106.2	135.6	142.5	134.7	125.7	116.6
Utah	52.3	73.1	101.8	119.1	119.4	123.8	121.7	107.5
Wyoming	25.2	32.0	40.1	71.8	60.8	57.0	45.7	40.4
Pacific	839.4	1,217.7	1,760.7	2,252.1	2,021.3	2,008.8	1,945.9	2,014.3
Alaska	b	b	5.2	16.6	30.7	30.3	32.3	30.4
California	830.2	1,115.4	1,580.1	1,986.8	1,735.6	1,728.8	1,700.0	1,776.9
Hawaii	b	1.6	2.0	2.8	3.6	3.5	3.5	3.2
Oregon	5.8	32.0	59.0	88.1	86.8	92.4	76.4	75.1
Washington	3.4	68.7	114.4	157.8	164.6	153.7	133.8	128.6

a. Excludes sales for resale.

b. Not available.

R—Revised.

GAS FACTS

TABLE 70
GAS UTILITY INDUSTRY SALES,
BY CLASS OF SERVICE AND TYPE OF COMPANY
1975-1981^a

(Trillions of Btu)

	1976 ^R	1977 ^R	1978 ^R	1979 ^R	1980 ^R	1981
Distribution						
Total	4,156 ^b	3,851	4,026	4,151	3,982	2,580 ^b
Residential	1,825	1,782	1,873	1,797	1,718	1,016
Commercial	854	830	880	899	901	598
Industrial	1,442	1,220	1,246	1,424	1,333	945
Other	35	19	28	31	30	21
Transmission						
Total	1,883	1,934	2,016	2,059	2,612	2,680
Residential	2	2	2	2	2	1
Commercial	6	5	4	4	8	7
Industrial	1,847	1,894	1,978	2,035	2,573	2,646
Other	28	33	32	19	29	26
Integrated						
Total	4,257 ^b	4,303	4,411	4,724	4,432	5,762 ^b
Residential	1,358	1,390	1,428	1,458	1,351	1,332
Commercial	708	694	704	698	646	905
Industrial	2,147	2,149	2,209	2,455	2,363	2,842
Other	44	69	70	113	72	83
Combination						
Total	3,860	3,623	3,631	3,807	3,708	3,686
Residential	1,527	1,470	1,485	1,519	1,455	1,370
Commercial	727	753	781	756	764	726
Industrial	1,553	1,357	1,311	1,491	1,448	1,550
Other	53	42	54	42	42	40
Municipals						
Total	655	630	664	701	685	672
Residential	302	301	319	308	293	282
Commercial	127	128	131	129	126	124
Industrial	204	176	187	236	238	237
Other	25	25	27	28	28	29

a. Prior to 1976 "Other" electric generation is included in the "Other" class of service. For 1976 and beyond all electric generation is included in the Industrial category.

b. Data not directly comparable to previous years due to company reclassification.

R—Revised.

SALES—QUANTITIES

TABLE 71
GAS UTILITY INDUSTRY SALES OF GAS FOR RESALE, BY STATE
1955-1981

(Trillions of Btu)							
Division and State	1955*	1960*	1965*	1970	1975	1980 ^R	1981
United States	6,122.6	9,257.8	12,566.4	17,575.6	14,504.5	15,687.0	15,969.0
New England	72.5	135.5	194.0	276.0	271.5	299.8	290.8
Connecticut				83.0	82.7	76.3	76.2
Maine				0.0	0.0	0.0	0.0
Massachusetts				156.6	160.0	188.8	179.8
New Hampshire				8.6	5.8	6.8	6.5
Rhode Island				27.8	21.8	27.9	28.3
Vermont				0.0	1.3	0.0	0.0
Middle Atlantic	816.3	1,337.4	1,827.4	2,433.3	1,901.6	2,334.0	2,389.2
New Jersey				491.9	370.2	510.7	506.6
New York				802.5	572.2	707.4	727.9
Pennsylvania				1,138.9	959.2	1,115.9	1,154.7
East North Central	1,403.5	1,999.8	3,296.3	5,249.0	4,542.8	4,442.1	4,511.2
Illinois				1,688.6	1,537.1	1,613.3	1,603.8
Indiana				513.6	406.8	461.5	483.4
Michigan				698.5	759.4	615.8	696.3
Ohio				1,892.4	1,356.1	1,315.4	1,324.0
Wisconsin				455.9	483.4	436.1	403.7
West North Central	574.7	759.7	975.2	1,306.9	1,144.5	1,044.2	997.3
Iowa				271.0	259.7	209.0	190.6
Kansas				206.4	169.7	149.4	178.8
Minnesota				272.6	239.0	239.1	214.7
Missouri				405.2	338.0	337.9	316.9
Nebraska				124.7	111.7	86.4	76.1
North Dakota				5.2	5.5	4.9	4.3
South Dakota				21.8	20.8	17.5	15.9
South Atlantic	774.3	1,223.6	1,605.2	1,981.1	1,372.5	1,446.6	1,409.4
Delaware				1.1	1.2	1.2	1.2
District of Columbia				0.0	0.0	0.0	0.0
Florida				63.4	82.7	94.7	95.3
Georgia				327.0	315.5	308.7	311.0
Maryland				183.1	151.0	184.5	197.5
North Carolina				157.9	118.5	165.8	165.1
South Carolina				166.5	127.6	111.5	110.4
Virginia				218.3	181.9	209.1	187.3
West Virginia				863.8	394.1	371.1	341.6
East South Central	757.0	1,009.5	1,116.2	1,573.5	1,178.0	1,256.8	1,272.3
Alabama				237.0	219.3	219.8	212.8
Kentucky				417.6	238.4	237.4	236.9
Mississippi				349.3	263.1	289.4	331.1
Tennessee				569.6	457.3	510.2	491.5
West South Central	836.4	1,199.7	1,136.4	1,497.3	1,215.9	2,007.5	2,247.5
Arkansas				22.6	16.1	16.1	16.6
Louisiana				854.6	569.2	661.9	771.3
Oklahoma				166.6	148.6	206.2	243.3
Texas				453.6	482.1	1,123.3	1,216.3
Mountain	755.3	1,304.2	1,562.0	2,021.0	1,901.8	1,875.9	1,933.1
Arizona				1,477.8	1,341.0	1,370.5	1,471.1
Colorado				249.0	279.6	261.7	210.7
Idaho				73.0	84.2	66.7	76.2
Montana				7.5	7.7	7.7	5.6
Nevada				5.8	9.5	9.9	8.6
New Mexico				104.9	71.8	58.6	61.3
Utah				21.3	7.4	8.3	6.9
Wyoming				81.6	100.6	92.5	92.7
Pacific	132.6	288.4	853.7	1,237.6	975.9	980.1	918.2
Alaska				0.0	0.0	27.4	0.0
California				680.5	346.5	436.5	456.5
Hawaii				0.0	0.0	0.0	0.0
Oregon				399.9	470.2	388.4	334.3
Washington				157.2	159.1	127.8	127.4

*Includes natural gas only prior to 1970 and state breakdowns not available prior to 1970.

R—Revised.

GAS FACTS

TABLE 72
GAS UTILITY INDUSTRY FIRM AND INTERRUPTIBLE GAS SALES
BY STATE, 1981

(Trillions of Btu)

Division and State	Commercial			Industrial		
	Total	Firm	Interruptible	Total	Firm	Interruptible
United States	2,360.4	2,183.5	176.9	8,220.1	4,806.9	3,413.2
New England	86.4	76.8	9.6	73.6	39.3	34.3
Connecticut	23.0	21.8	1.2	21.0	16.2	4.8
Maine	1.0	1.0	0.0	0.7	0.7	0.0
Massachusetts	53.0	44.8	8.3	38.0	17.9	20.1
New Hampshire	3.4	3.4	0.0	2.1	1.1	1.1
Rhode Island	5.0	4.9	0.1	9.7	3.4	6.3
Vermont	0.9	0.9	0.0	2.1	0.1	2.0
Middle Atlantic	316.0	306.0	10.1	573.9	441.7	132.3
New Jersey	76.6	69.9	6.7	106.4	49.4	57.0
New York	118.2	116.1	2.2	148.0	110.2	37.8
Pennsylvania	121.1	120.0	1.1	319.6	282.1	37.5
East North Central	682.7	666.4	16.4	1,313.6	1,077.4	236.2
Illinois	223.0	222.7	0.4	356.4	317.6	38.8
Indiana	67.6	63.7	3.9	251.7	216.2	35.6
Michigan	175.5	173.3	2.2	247.7	197.2	50.5
Ohio	159.1	157.8	1.3	308.8	282.8	25.9
Wisconsin	57.6	48.9	8.6	149.1	63.7	85.4
West North Central	270.6	215.8	54.8	560.5	233.9	326.6
Iowa	47.4	38.4	9.0	117.1	85.3	31.8
Kansas	44.8	30.4	14.5	197.7	54.3	143.4
Minnesota	44.9	36.9	7.9	109.5	42.6	66.9
Missouri	85.1	67.0	18.1	69.1	15.8	53.3
Nebraska	32.1	30.3	1.8	59.6	37.2	22.4
North Dakota	9.7	6.8	2.9	1.7	0.0	1.7
South Dakota	6.7	6.0	0.6	5.6	0.6	5.0
South Atlantic	234.0	210.2	23.8	699.0	304.6	394.4
Delaware	3.7	3.5	0.2	12.2	9.5	2.7
District of Columbia	15.0	11.5	3.5	0.0	0.0	0.0
Florida	29.2	28.0	1.2	189.5	26.7	162.8
Georgia	54.6	54.4	0.2	152.6	20.4	132.3
Maryland	31.2	23.6	7.6	62.9	33.7	29.2
North Carolina	24.3	24.3	a	90.6	81.3	9.3
South Carolina	15.6	11.4	4.2	75.1	32.9	42.2
Virginia	36.1	30.3	5.8	56.1	40.5	15.6
West Virginia	24.1	23.1	1.0	60.0	59.7	0.3
East South Central	105.3	96.9	8.5	459.6	314.5	145.2
Alabama	26.3	22.8	3.6	138.3	80.9	57.4
Kentucky	29.9	27.4	2.5	63.0	34.0	29.0
Mississippi	14.2	14.2	a	128.3	125.4	2.8
Tennessee	34.9	32.5	2.4	130.1	74.1	56.0
West South Central	229.8	222.6	7.3	2,995.9	2,066.3	929.7
Arkansas	24.2	23.8	0.4	151.3	135.0	16.3
Louisiana	27.0	27.0	a	458.2	298.9	159.3
Oklahoma	40.9	35.8	5.2	341.9	220.6	121.3
Texas	137.7	136.0	1.7	2,044.5	1,411.7	632.7
Mountain	139.9	137.7	2.2	392.9	224.3	168.6
Arizona	20.0	20.0	0.0	92.1	92.0	0.1
Colorado	57.4	57.1	0.3	63.2	16.6	46.6
Idaho	8.2	7.7	0.5	26.5	24.1	2.4
Montana	12.6	12.3	0.3	15.5	0.9	14.6
Nevada	8.5	8.5	0.0	54.0	54.0	0.0
New Mexico	14.2	13.2	1.1	86.2	18.8	47.4
Utah	13.8	13.8	0.0	48.3	10.1	38.2
Wyoming	5.1	5.1	a	27.1	7.7	19.3
Pacific	295.6	251.3	44.2	1,151.0	105.0	1,046.0
Alaska	3.4	3.4	0.0	18.9	4.3	14.6
California	245.9	210.6	35.3	1,018.4	50.2	968.2
Hawaii	0.9	0.9	0.0	1.7	1.7	0.0
Oregon	15.5	15.0	0.6	41.7	19.4	22.3
Washington	29.9	21.5	8.4	70.4	29.4	41.0

a. Less than 0.05 trillion Btu.

SALES—QUANTITIES

TABLE 73
GAS CONSUMED FOR ELECTRIC GENERATION,* BY STATE, 1960-1981

(Millions of Cubic Feet)							
Division and State	1960	1965	1970	1975	1979	1980	1981
United States	1,724,762	2,321,101	3,931,860	3,146,874	3,490,523	3,681,595	3,642,550
New England	12,885	13,918	8,133	2,523	9,202	7,001	9,826
Connecticut	1,756	337	147	344	0	0	0
Maine	0	0	0	0	0	0	0
Massachusetts	10,785	13,098	5,668	1,437	6,886	5,083	6,890
New Hampshire	0	0	0	177	30	0	139
Rhode Island	344	483	2,319	11	1,752	1,679	2,603
Vermont	0	0	0	555	534	239	191
Middle Atlantic	89,288	97,850	161,385	23,426	108,553	206,769	212,837
New Jersey	25,482	22,440	45,891	8,601	30,727	79,513	79,064
New York	57,819	74,189	106,141	13,613	75,964	124,391	130,508
Pennsylvania	5,987	1,221	9,354	1,213	1,862	2,865	3,267
East North Central	61,407	68,232	278,143	118,394	98,998	65,883	47,143
Illinois	42,348	34,618	132,382	34,176	31,547	19,165	13,166
Indiana	8,790	13,272	29,507	10,994	2,774	1,904	5,307
Michigan	5,209	2,989	64,270	47,151	37,860	26,368	19,191
Ohio	2,992	2,947	21,380	6,139	5,604	4,706	2,052
Wisconsin	2,068	14,406	30,604	19,935	21,213	13,740	7,428
West North Central	245,084	303,818	420,086	264,825	166,664	143,387	100,328
Iowa	48,587	52,238	77,910	46,929	8,333	6,835	3,362
Kansas	82,195	112,955	167,885	127,818	116,828	101,022	79,117
Minnesota	48,521	51,420	58,954	22,709	6,966	8,077	5,552
Missouri	30,251	47,552	62,970	26,320	20,383	15,329	7,660
Nebraska	30,973	36,269	47,641	37,659	14,009	11,850	4,560
North Dakota	103	25	362	157	17	15	17
South Dakota	4,454	3,359	4,364	3,232	129	259	56
South Atlantic	147,439	117,395	343,408	199,105	194,824	191,409	194,218
Delaware	3,190	4,611	3,744	1,697	5,143	6,999	5,685
District of Columbia	0	0	0	0	0	0	0
Florida	88,518	87,001	198,367	141,153	167,444	166,047	171,469
Georgia	25,336	831	58,674	40,282	3,023	3,666	2,780
Maryland	78	56	11,435	451	9,820	5,230	6,000
North Carolina	4,660	2,895	21,126	101	591	1,702	902
South Carolina	23,278	18,801	45,081	14,566	5,177	5,418	5,009
Virginia	1,438	2,268	4,276	496	3,557	2,285	2,180
West Virginia	941	932	705	358	69	62	199
East South Central	53,249	78,626	140,940	37,774	72,051	99,461	78,906
Alabama	9,378	5,561	15,444	5,994	6,934	1,382	1,782
Kentucky	2,288	453	8,533	272	934	1,902	2,587
Mississippi	34,358	56,360	99,710	31,507	64,183	95,073	74,222
Tennessee	7,225	16,252	17,253	0	0	1,104	316
West South Central	656,727	1,009,857	1,735,541	2,042,085	2,166,468	2,243,820	2,134,393
Arkansas	46,779	67,510	107,445	31,818	30,254	58,863	56,211
Louisiana	119,818	175,573	331,750	356,130	401,399	424,991	414,892
Oklahoma	82,820	127,231	234,721	300,848	334,446	329,940	285,017
Texas	407,310	639,543	1,061,625	1,353,290	1,400,368	1,430,026	1,378,275
Mountain	134,990	136,442	198,745	164,636	196,387	175,032	175,603
Arizona	53,246	36,740	58,898	17,693	51,258	49,699	57,912
Colorado	37,015	35,539	51,194	52,930	35,409	31,928	13,596
Idaho	0	0	0	18	491	46	16
Montana	341	1,992	2,529	1,059	2,320	4,182	2,069
Nevada	6,339	13,271	25,336	25,152	39,828	27,541	44,249
New Mexico	33,701	43,996	54,894	64,239	60,410	56,280	54,558
Utah	3,677	4,742	3,520	2,725	6,186	5,133	3,099
Wyoming	671	163	2,373	819	486	222	107
Pacific	323,693	494,963	645,478	294,105	477,376	548,833	689,294
Alaska	0	2,149	8,198	19,619	28,295	28,763	29,070
California	322,992	492,701	636,270	274,483	444,601	518,808	659,549
Hawaii	0	0	0	0	0	0	0
Oregon	701	113	1,010	3	2,380	321	186
Washington	0	0	0	0	2,100	941	491

*Includes direct sales by producers to electric utilities as well as sales by the gas utility industry.

Note: Totals may not add due to independent rounding.

R—Revised.

Source: Energy Information Administration, U.S. Department of Energy, *Electric Power Monthly*, January 1981–December 1981.

GAS FACTS

TABLE 74
GAS UTILITY INDUSTRY GAS USED FOR
ELECTRIC GENERATION, 1955-1981^a

(Trillions of Btu)

Year	Sales				Transfers ^c	Total Sales and Transfers
	Industrial ^b			Total Sales		
	Firm	Interruptible	Other			
1955		739.3	132.4	871.7	191.2	1,062.8
1956		816.9	142.0	958.9	187.6	1,146.4
1957		854.0	134.4	988.4	200.3	1,188.7
1958		872.4	124.3	996.7	236.4	1,233.1
1959		937.3	161.4	1,098.7	222.7	1,321.4
1960		999.3	187.1	1,186.4	234.1	1,420.4
1961		990.6	218.6	1,209.2	244.0	1,453.2
1962		1,040.7	259.0	1,299.7	239.1	1,538.8
1963		1,103.2	306.6	1,409.7	247.1	1,656.8
1964		1,258.3	347.0	1,605.3	265.4	1,870.7
1965		1,179.5	308.5	1,488.0	246.2	1,734.2
1966		1,276.2	367.8	1,644.0	260.2	1,904.2
1967		1,386.9	316.7	1,703.6	254.3	1,957.9
1968		1,489.6	381.3	1,870.9	270.9	2,141.8
1969		1,643.9	360.8	2,004.7	232.6	2,237.3
1970		1,877.5	427.5	2,305.0	283.6	2,588.6
1971	853.6	1,083.6	483.4	2,420.6	595.2	3,015.9
1972	956.5	858.4	553.3	2,368.4	549.5	2,917.9
1973	542.8	871.6	511.4	1,925.8	477.2	2,403.0
1974	497.2	812.5	387.9	1,697.6	419.8	2,117.4
1975	374.5	623.4	385.8	1,383.6	301.6	1,685.2
1976 ^R	478.1	889.5	d	1,367.6	250.9	1,618.5
1977 ^R	489.1	959.6	d	1,448.7	241.1	1,689.8
1978 ^R	544.2	854.0	d	1,398.2	187.9	1,586.1
1979 ^R	665.2	980.0	d	1,645.2	335.0	1,980.2
1980 ^R	968.8	1,127.6	d	2,096.5	416.7	2,513.2
1981	989.0	1,247.7	d	2,236.7	349.4	2,586.1

a. Excludes direct sales by producers to electric utilities.

b. No breakdown available prior to 1971.

c. Represents transfers by the gas department to the electric department of combination gas and electric companies.

d. Other now included with Industrial to conform to the definition of industrial services.

R—Revised.

SALES—QUANTITIES

TABLE 75
GAS UTILITY INDUSTRY GAS USED FOR ELECTRIC GENERATION
BY STATE, 1981^a

(Trillions of Btu)					
Division and State	Industrial Sales			Transfers ^b	Total Sales and Transfers
	Firm	Interruptible	Total		
United States	989.0	1,247.7	2,236.7	349.4	2,586.1
New England	0.0	10.1	10.1	0.0	10.1
Connecticut	0.0	0.0	0.0	0.0	0.0
Maine	0.0	0.0	0.0	0.0	0.0
Massachusetts	0.0	7.5	7.5	0.0	7.5
New Hampshire	0.0	0.0	0.0	0.0	0.0
Rhode Island	0.0	2.6	2.6	0.0	2.6
Vermont	0.0	0.0	0.0	0.0	0.0
Middle Atlantic	1.5	24.9	26.4	189.3	215.7
New Jersey	0.0	18.6	18.6	63.1	81.7
New York	0.1	0.0	0.1	126.2	126.3
Pennsylvania	1.3	6.3	7.7	0.1	7.7
East North Central	24.2	10.6	34.9	6.1	41.0
Illinois	11.2	1.5	12.6	0.7	13.3
Indiana	0.2	0.0	0.2	5.0	5.2
Michigan	10.6	2.6	13.3	0.0	13.3
Ohio	0.2	1.0	1.3	0.3	1.6
Wisconsin	2.0	5.5	7.5	0.1	7.6
West North Central	6.0	39.4	45.4	4.5	49.9
Iowa	c	1.8	1.8	1.0	2.8
Kansas	2.4	33.4	35.8	1.1	36.9
Minnesota	0.1	1.6	1.7	1.6	3.2
Missouri	c	2.3	2.3	0.8	3.1
Nebraska	3.5	0.3	3.8	0.0	3.8
North Dakota	0.0	c	c	0.0	c
South Dakota	0.0	0.0	0.0	0.1	0.1
South Atlantic	1.4	100.5	102.0	15.5	117.4
Delaware	0.0	0.0	0.0	4.1	4.1
District of Columbia	0.0	0.0	0.0	0.0	0.0
Florida	0.7	97.2	97.9	0.0	97.9
Georgia	0.0	2.9	2.9	0.0	2.9
Maryland	0.0	0.0	0.0	5.9	5.9
North Carolina	0.4	0.2	0.6	0.0	0.6
South Carolina	0.4	c	0.4	4.0	4.4
Virginia	0.0	0.0	0.0	1.4	1.4
West Virginia	0.0	0.2	0.2	0.0	0.2
East South Central	46.6	14.4	61.0	1.4	62.4
Alabama	0.0	0.0	0.0	0.0	0.0
Kentucky	0.0	0.0	0.0	1.1	1.1
Mississippi	46.6	13.3	60.0	0.0	60.0
Tennessee	0.0	1.1	1.1	0.2	1.3
West South Central	807.9	335.2	1,143.1	86.1	1,229.2
Arkansas	2.6	1.4	4.0	0.0	4.0
Louisiana	145.5	13.5	159.0	49.4	208.4
Oklahoma	121.9	22.3	144.3	0.0	144.3
Texas	537.9	298.0	835.9	36.7	872.6
Mountain	100.9	35.5	136.4	46.5	182.9
Arizona	44.3	0.3	44.6	17.4	62.0
Colorado	1.7	11.1	12.8	6.2	19.0
Idaho	0.0	0.0	0.0	0.0	0.0
Montana	0.0	c	c	2.0	2.0
Nevada	42.2	0.0	42.2	20.3	62.4
New Mexico	12.7	24.1	36.8	0.7	37.5
Utah	0.0	0.0	0.0	0.0	0.0
Wyoming	0.0	0.0	0.0	c	c
Pacific	0.4	677.0	677.4	0.0	677.4
Alaska	0.0	14.6	14.6	0.0	14.6
California	0.0	662.2	662.2	0.0	662.2
Hawaii	0.0	0.0	0.0	0.0	0.0
Oregon	0.0	0.2	0.2	0.0	0.2
Washington	0.4	0.0	0.4	0.0	0.4

a. Excludes direct sales by producers to electric utilities.

b. Volumes transferred by the gas department to the electric department of combination gas and electric companies.

c. Less than 0.05 trillion Btu.

GAS FACTS

TABLE 76
GAS UTILITY INDUSTRY SALES, BY TYPE OF INDUSTRY CLASSIFICATION AND BY DIVISION, 1981^a
(Trillions of Btu)

Industry Classification	Total U.S.	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Agriculture, forestry and fisheries	37.3	0.4	3.4	6.1	26.9	1.4	1.1	6.2	3.1	16.0
Petroleum and natural gas production	59.8	0.0	0.0	0.3	4.2	0.0	0.0	1.4	0.3	10.5
Other mining	70.5	0.1	0.0	4.7	0.3	12.9	0.0	32.0	5.2	17.0
Electric services ^b	2,586.1	10.1	215.7	41.0	49.9	117.4	62.4	1,229.2	31.4	6.6
Other transportation, communication, and public utilities	82.0	5.9	2.1	19.3	26.9	1.4	1.1	6.2	3.1	16.0
Hotels, rooming houses, and camps	27.7	0.2	4.6	8.7	1.0	1.0	0.0	1.4	0.3	10.5
Laundries, cleaning and dyeing	22.3	0.2	0.3	7.8	0.1	0.9	0.0	0.2	0.0	12.8
Other services	313.8	5.8	25.3	147.3	17.1	14.8	5.2	12.2	10.1	76.0
Other non-manufacturing	199.8	3.9	20.8	72.1	3.9	6.0	2.8	1.7	8.3	50.3
Food and kindred products	345.8	3.0	27.3	111.5	59.0	20.8	11.3	14.0	20.4	78.5
Textile products, apparel, fabrics, etc.	56.6	2.7	5.4	3.1	0.0	33.9	5.8	0.9	0.0	4.8
Furniture, lumber, and other wood products	53.8	0.0	1.5	5.6	1.3	1.6	15.3	15.4	0.4	12.7
Paper and allied products	265.4	2.9	21.8	60.7	5.5	41.6	53.4	27.3	6.5	45.7
Carbon black	24.2	0.0	0.1	0.8	15.0	0.6	0.4	6.5	0.0	0.8
Chemicals and allied products (except carbon black)	881.9	4.1	32.9	135.1	100.5	133.3	53.6	342.7	31.4	48.3
Petroleum refining	419.4	0.1	3.0	20.6	23.5	7.5	7.2	233.2	19.7	104.6
Rubber and miscellaneous plastic products	59.4	0.5	6.8	18.7	4.2	4.3	6.9	12.5	1.1	4.4
Glass products	160.9	3.4	44.3	47.1	2.1	22.1	8.0	9.9	0.0	24.0
Cement	36.8	0.0	0.7	1.2	4.7	9.0	2.8	4.8	4.4	9.2
Clay products, pottery, etc.	72.6	0.5	9.8	11.3	10.3	23.2	5.8	1.5	2.8	7.4
Other stone products and miscellaneous	84.4	1.4	9.1	17.4	8.6	16.2	2.7	0.6	1.6	26.8
Primary iron and steel industries	594.0	2.8	145.0	288.5	33.4	45.9	32.4	1.8	21.6	22.6
Primary non-ferrous industries	254.4	2.1	33.1	65.9	2.4	9.8	25.4	41.2	50.4	24.1
Fabricated metal products, machinery equipment and supplies	233.4	4.5	32.3	125.5	16.2	8.9	13.2	4.4	2.1	26.3
Transportation equipment	88.0	0.9	11.3	48.0	7.0	4.0	3.4	1.3	0.5	11.6
Other manufacturing	107.1	3.2	14.4	38.2	6.7	6.8	8.0	5.2	6.7	17.9
Public administration	71.7	0.7	5.5	13.2	5.0	14.4	3.8	2.9	6.6	19.6
Total (Sum) ^b	7,179.1	59.4	676.5	1,319.7	415.0	559.3	332.2	2,044.9	402.5	1,369.5
Total Commercial, Industrial and "Other" sales of co.'s reporting this table	8,102.9	129.1	866.6	1,718.5	698.9	714.4	415.6	1,664.7	489.1	1,406.0
Total Gas Utility Industry Commercial, Industrial and "Other" sales	10,779.3	162.9	927.0	2,006.5	843.3	966.8	582.0	3,292.9	548.1	1,449.6

a. Less than 0.05 trillions of Btu rounded to 0.0.

b. Includes the following quantities of gas for electric generation not included in Total Commercial, Industrial and "Other" sales of companies reporting this table or in Total Gas Utility Industry sales. Such quantities represent transfers by the gas department to the electric department of combination gas and electric companies:

6.1 1.4 86.1 46.5 0.0

SALES—QUANTITIES

TABLE 77
GAS UTILITY INDUSTRY SALES
BY TYPE OF INDUSTRY CLASSIFICATION, 1955-1981

(Trillions of Btu)							
Industry Classification	1955	1960	1965	1970	1975	1980 ^R	1981
Agriculture, forestry and fisheries	8.5	10.8	12.0	33.0	49.7	47.1	37.3
Petroleum and natural gas production	41.9	48.3	97.8	101.0	83.8	32.2	59.8
Other mining	14.2	44.8	69.8	59.8	49.3	55.6	70.5
Electric services	1,062.8	1,420.4	1,734.2	2,588.6	1,685.2	2,513.2	2,586.1
Other transportation, communications and public utilities	11.2	22.4	38.5	96.2	95.9	92.5	82.0
Hotels, rooming houses, camps	10.1	16.2	33.5	67.3	77.8	27.8	27.7
Laundries, cleaning and dyeing	2.6	4.0	16.3	21.5	24.3	22.0	22.3
Other services	34.3	34.2	70.1	175.1	236.7	309.5	313.8
Other non-manufacturing	41.8	43.1	74.9	198.6	187.5	151.8	169.8
Ordnance	13.4	14.1	21.2	35.4	b	b	b
Food and kindred products	119.6	167.8	243.0	330.5	338.9	320.2	345.8
Textile products, apparel, fabrics, etc.	16.0	22.6	43.7	72.5	54.6	64.3	56.6
Furniture, lumber and other wood products	10.8	23.1	52.3	64.9	61.1	45.7	53.8
Paper and allied products	121.5	193.2	267.5	402.7	267.6	257.8	265.4
Carbon black	2.8	15.0	42.0	52.8	38.2	34.1	24.2
Chemicals and allied products (except carbon black)	257.3	519.6	644.6	880.7	886.5	603.8	881.9
Petroleum refining	286.2	384.1	375.1	639.6	514.5	372.0	419.4
Rubber and miscellaneous plastic products	42.3	16.8	38.9	47.8	45.1	50.7	59.4
Glass products	90.2	138.4	184.8	208.8	173.7	170.9	160.9
Cement	129.1	169.6	183.5	195.0	158.1	49.2	36.8
Clay products, pottery, etc.	83.6	129.6	153.7	145.3	110.0	85.4	72.6
Other stone products and miscellaneous	30.6	30.8	68.3	82.3	97.0	85.5	84.4
Primary iron and steel industries	204.8	346.1	552.4	669.0	555.5	546.3	594.0
Primary non-ferrous industries	197.3	208.1	270.8	232.9	275.9	194.4	254.4
Fabricated metal products, machinery equipment and supplies	69.3	110.7	181.6	289.8	276.8	233.1	233.4
Transportation equipment	46.9	65.1	112.0	170.8	140.2	84.4	88.0
Other manufacturing	32.0	33.9	63.3	100.0	122.1	121.0	107.1
Public Administration	c	c	c	c	72.1	70.0	71.7
Total (Sum)^a	2,981.1	4,232.8	5,645.9	7,961.9	6,678.3	6,641.5	7,179.1
Total Commercial, Industrial and "Other" sales of co.'s reporting this table	3,199.0	4,512.7	6,050.0	8,022.9	8,786.0	7,851.5	8,102.9
Total Gas Utility Industry Commercial, Industrial and "Other" sales^d	3,817.0	5,179.8	6,636.5	9,113.2	9,871.9	10,600.5	10,779.3

a. Includes the following quantities of gas for electric generation not included in Total Commercial, Industrial, and "Other" sales of companies reporting this table or in Total Gas Utility Industry sales. Such quantities represent transfers by the gas department to the electric department of combination gas and electric companies. Quantities in trillions of Btu's are: 1955-191.2; 1960-234.1; 1965-245.2; 1970-283.6; 1975-301.6; 1980-416.7; and 1981-349.4.

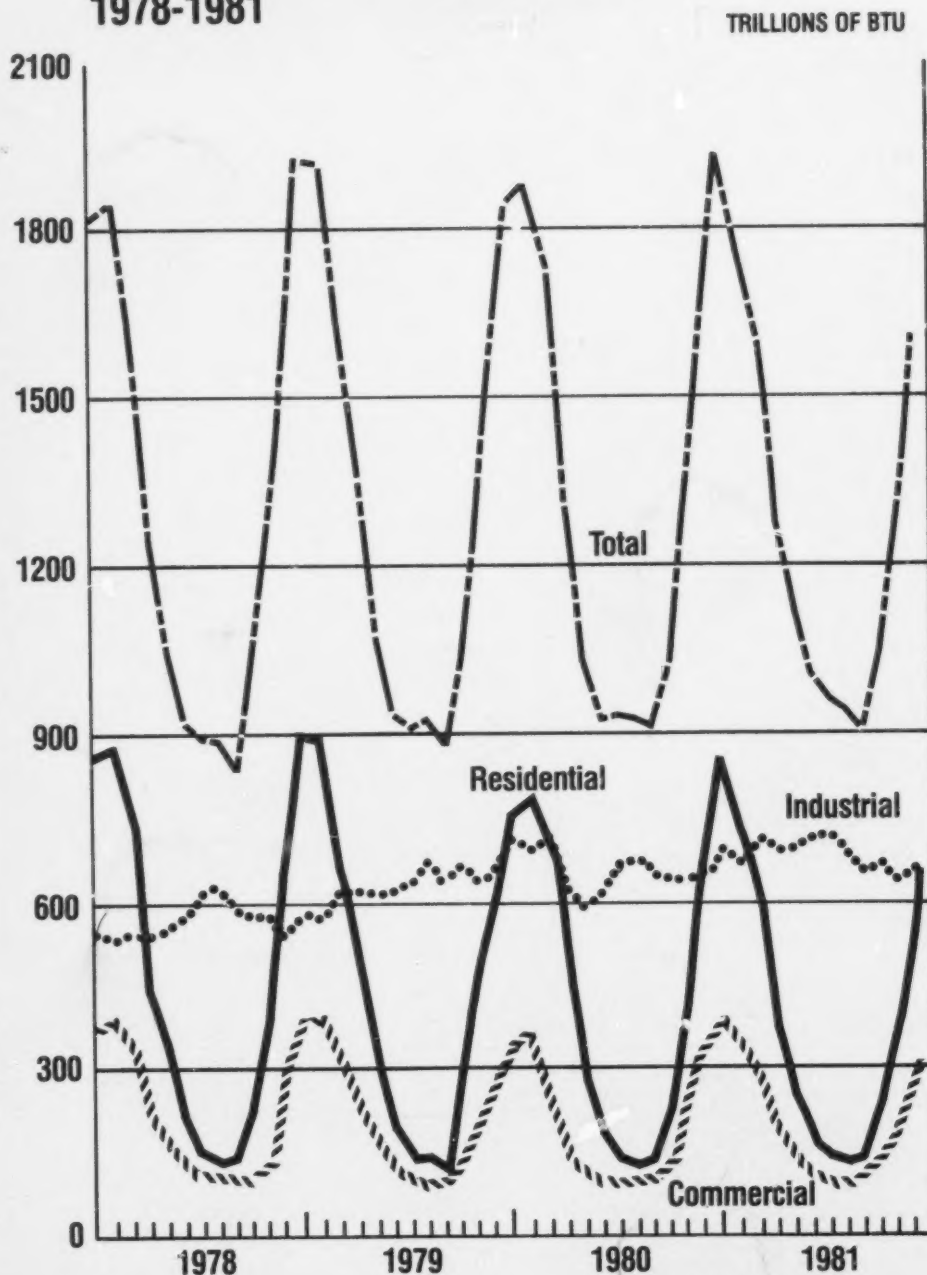
b. Classification eliminated.

c. New classification in 1972.

d. Includes Industrial and "Other" sales only prior to 1971.

R—Revised.

UTILITY SALES OF NATURAL GAS TO CONSUMERS BY MONTHS . . . 1978-1981



SALES—QUANTITIES

TABLE 78
GAS UTILITY INDUSTRY TOTAL SALES, BY MONTH, 1955-1981
(Trillions of Btu)

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
1955	693.5	730.0	676.4	590.1	487.3	447.1	417.6	427.2	432.8	467.1	566.3	715.1	6,650.5
1960	1,031.3	1,015.3	1,078.4	860.1	693.6	617.5	557.4	561.6	557.0	607.4	753.5	948.9	9,282.0
1965	1,304.0	1,329.2	1,313.4	1,168.2	874.9	775.0	748.0	732.8	731.3	823.5	979.4	1,197.9	11,977.6
1966	1,355.8	1,468.4	1,368.4	1,171.5	1,011.7	865.7	796.8	783.8	799.1	890.3	1,066.8	1,278.6	12,856.9
1967	1,502.8	1,426.1	1,429.8	1,183.9	1,064.2	911.9	829.1	822.3	829.6	923.6	1,151.6	1,411.3	13,486.2
1968	1,671.0	1,589.2	1,556.1	1,241.9	1,100.9	978.8	907.0	878.4	880.7	955.6	1,185.4	1,525.4	14,470.4
1969	1,784.4	1,640.0	1,636.8	1,375.3	1,124.0	1,008.9	988.2	954.5	946.6	1,030.5	1,289.9	1,610.5	15,389.7
1970	1,865.8	1,733.0	1,663.0	1,527.7	1,225.7	1,054.3	1,013.5	1,020.2	1,007.5	1,081.1	1,283.7	1,566.4	16,041.9
1971	1,886.8	1,873.5	1,769.5	1,559.1	1,312.2	1,145.2	1,053.3	1,037.4	1,023.7	1,100.9	1,305.7	1,618.4	16,685.7
1972	1,833.1	1,908.1	1,758.3	1,542.6	1,292.5	1,176.1	1,056.1	1,125.9	1,094.5	1,120.0	1,378.7	1,796.2	17,082.1
1973	1,909.4	1,752.8	1,645.3	1,500.1	1,332.1	1,143.8	1,104.3	1,069.0	1,063.1	1,136.5	1,306.7	1,516.3	16,479.9
1974	1,847.6	1,707.2	1,630.7	1,493.6	1,251.6	1,119.9	1,050.8	1,034.9	942.3	1,115.2	1,219.8	1,536.7	16,000.3
1975	1,709.5	1,633.6	1,588.4	1,455.3	1,120.8	944.8	924.7	934.8	935.4	1,009.2	1,102.8	1,503.6	14,862.9
1976	1,797.5	1,644.6	1,451.0	1,252.2	1,099.8	965.6	913.1	900.8	899.1	996.4	1,278.3	1,614.7	14,813.5
1977	1,901.9	1,682.7	1,425.7	1,166.4	974.8	904.5	875.8	866.5	860.7	976.7	1,153.5	1,549.8	14,340.9
1978	1,808.7	1,834.1	1,647.5	1,237.7	1,061.4	921.4	895.1	878.8	839.6	947.7	1,151.1	1,525.5	14,748.4
1979	1,925.1	1,923.8	1,630.5	1,356.3	1,074.6	934.9	903.7	920.9	891.3	1,038.9	1,253.4	1,587.0	15,440.4
1980	1,835.5	1,872.4	1,728.9	1,315.5	1,024.7	919.1	928.1	919.1	907.4	1,024.8	1,287.0	1,656.9	15,419.4
1981	1,957.1	1,759.9	1,595.3	1,273.5	1,107.5	1,004.2	959.1	933.9	902.7	1,045.8	1,235.4	1,605.5	15,379.9

GAS FACTS

TABLE 79
GAS UTILITY INDUSTRY SALES, BY QUARTER AND CLASS OF SERVICE
1955-1981

(Trillions of Btu)

Year and Quarter	Total	Residential	Commercial	Industrial*	Other*
1955					
First	2,100.0	967.4	248.1	815.0	69.3
Second	1,524.5	448.4	119.2	887.8	69.1
Third	1,277.7	203.2	66.9	936.1	71.5
Fourth	1,748.6	614.2	166.4	895.9	72.1
1960					
First	3,124.9	1,459.0	404.6	1,119.7	141.6
Second	2,171.3	679.8	188.0	1,197.1	106.4
Third	1,676.1	265.5	92.7	1,222.1	95.8
Fourth	2,309.7	780.0	232.8	1,170.3	126.6
1965					
First	3,946.6	1,811.2	575.2	1,424.3	135.9
Second	2,818.1	878.9	291.2	1,538.8	109.2
Third	2,212.1	346.1	144.9	1,603.3	117.8
Fourth	3,001.0	961.1	332.8	1,580.0	127.1
1970					
First	5,262.3	2,286.9	867.7	1,939.2	168.6
Second	3,808.1	1,024.3	423.8	2,201.4	158.4
Third	3,041.5	420.7	218.6	2,236.1	166.0
Fourth	3,931.6	1,191.8	496.5	2,062.5	181.0
1974					
First	5,185.5	2,105.9	908.5	1,985.9	185.1
Second	3,865.1	1,055.0	496.4	2,163.3	150.5
Third	3,078.0	472.6	295.1	2,136.5	173.9
Fourth	3,871.6	1,231.2	593.4	1,867.5	179.5
1975					
First	4,931.5	2,192.8	970.4	1,598.7	169.6
Second	3,520.9	1,137.7	536.3	1,715.9	131.0
Third	2,794.9	474.9	301.2	1,842.2	176.6
Fourth	3,615.6	1,185.6	579.0	1,680.2	170.8
1976^R					
First	4,893.1	2,165.1	957.6	1,717.0	53.4
Second	3,317.7	963.9	472.4	1,843.8	37.6
Third	2,709.1	446.7	309.2	1,914.0	39.2
Fourth	3,893.5	1,438.5	683.4	1,717.3	54.4
1977^R					
First	5,010.3	2,395.4	1,019.4	1,534.6	61.0
Second	3,047.7	855.5	448.8	1,701.6	41.8
Third	2,602.9	425.6	314.7	1,822.3	40.3
Fourth	3,680.0	1,269.8	626.5	1,737.9	45.8
1978^R					
First	5,290.3	2,460.1	1,098.9	1,658.1	73.1
Second	3,220.5	960.2	491.4	1,724.8	44.2
Third	2,613.5	426.6	294.7	1,851.8	40.4
Fourth	3,624.1	1,259.9	614.5	1,696.8	53.0
1979^R					
First	5,479.5	2,462.8	1,095.8	1,828.2	92.7
Second	3,366.0	965.7	486.3	1,870.8	43.2
Third	2,715.4	431.2	283.8	1,966.5	33.9
Fourth	3,879.4	1,223.4	619.9	1,975.9	60.2
1980^R					
First	5,436.8	2,215.9	1,027.2	2,120.3	73.4
Second	3,259.3	913.2	462.8	1,845.0	38.3
Third	2,754.6	404.6	298.6	2,018.1	33.3
Fourth	3,968.7	1,285.2	655.5	1,971.5	56.5
1981					
First	5,312.2	2,166.7	1,001.0	2,070.8	73.7
Second	3,385.1	795.7	427.7	2,121.7	40.0
Third	2,796.8	399.1	291.8	2,072.8	33.1
Fourth	3,885.8	1,239.1	639.9	1,954.8	52.0

*Prior to 1976, "Other" electric generation (see Table 74) is included in the "Other" class of service. For 1976 and beyond all electric generation is included in the Industrial category.

R—Revised.

SALES—QUANTITIES

TABLE 80
HEATING DEGREE DAYS^a BY CALENDAR YEAR AND
HEATING SEASONS, 1980-1981, AND THIRTY-YEAR NORMALS

Division and State	Calendar Year Degree Days			Heating Season Degree Days ^b		
	30-Year ^c Normals 1951-1980	1980	1981	30-Year ^c Normals 1951/52-1980/81	1980-1981	1981-1982
United States	4,694	5,004	4,653	3,796	3,921	3,931
New England	6,562	6,827	6,582	5,060	5,314	5,294
Connecticut	6,146	6,246	6,113	4,828	5,046	4,987
Maine	7,945	8,494	7,670	5,886	6,145	6,174
Massachusetts	6,322	6,709	6,464	4,899	5,230	5,168
New Hampshire	7,599	7,911	7,370	5,745	5,908	5,999
Rhode Island	5,968	6,173	6,092	4,615	4,917	4,782
Vermont	7,979	8,335	7,869	6,037	6,287	6,331
Middle Atlantic	5,820	6,158	6,005	4,649	4,953	4,928
New Jersey	5,424	5,751	5,652	4,408	4,785	4,699
New York	5,943	6,272	6,046	4,719	4,985	4,967
Pennsylvania	5,881	6,251	6,167	4,694	5,014	5,014
East North Central	6,375	6,780	6,446	5,129	5,148	5,493
Illinois	6,175	6,579	6,154	5,086	4,960	5,542
Indiana	5,871	6,283	5,982	4,809	4,857	5,207
Michigan	6,823	7,263	6,931	5,359	5,459	5,690
Ohio	5,897	6,429	6,156	4,754	5,013	5,061
Wisconsin	7,665	7,813	7,411	6,017	5,678	6,312
West North Central	6,657	6,662	6,118	5,437	4,892	5,704
Iowa	6,932	6,890	6,336	5,685	5,101	6,011
Kansas	4,988	5,078	4,535	4,282	3,809	4,463
Minnesota	8,771	8,652	8,011	6,885	6,139	7,129
Missouri	5,091	5,378	4,923	4,348	4,154	4,658
Nebraska	6,435	6,311	5,748	5,278	4,570	5,500
North Dakota	9,481	9,085	8,333	7,321	6,274	7,692
South Dakota	7,714	7,349	6,700	6,120	5,214	6,292
South Atlantic	2,999	3,391	3,295	2,592	2,999	2,694
Delaware	4,784	4,950	4,893	3,999	4,194	4,219
District of Columbia	d	d	d	d	d	d
Florida	720	840	973	705	996	624
Georgia	2,788	3,004	3,084	2,495	2,740	2,536
Maryland	4,811 ^e	5,017 ^e	4,939 ^e	4,026 ^e	4,207 ^e	4,261 ^e
North Carolina	3,481	3,766	3,877	3,030	3,356	3,192
South Carolina	2,743	3,030	3,078	2,485	2,784	2,565
Virginia	4,327	4,636	4,682	3,648	3,954	3,291
West Virginia	5,250	5,695	5,703	4,252	4,625	4,455
East South Central	3,555	3,845	3,757	3,096	3,295	3,129
Alabama	2,828	3,089	3,046	2,535	2,779	2,504
Kentucky	4,544	4,893	4,764	3,849	4,073	3,956
Mississippi	2,510	2,772	2,603	2,297	2,503	2,245
Tennessee	3,954	4,275	4,191	3,409	3,610	3,481
West South Central	2,313	2,444	2,204	2,139	2,165	2,074
Arkansas	3,327	3,564	3,293	2,987	2,980	3,069
Louisiana	1,794	1,960	1,883	1,692	1,929	1,609
Oklahoma	3,571	3,626	3,302	3,216	2,938	3,256
Texas	2,035	2,145	1,891	1,905	1,928	1,800
Mountain	5,529	5,431^R	4,890	4,193	3,764	3,998
Arizona	2,313	1,995	1,832	2,045	1,605	1,778
Colorado	7,123	7,031	6,395	5,202	4,827	4,997
Idaho	6,935	6,643	6,386	5,077	4,584	5,065
Montana	8,260	7,857	7,312	5,857	4,980	5,915
Nevada	4,263	3,990	3,681	3,381	2,968	3,201
New Mexico	4,756	4,554	4,187	3,848	3,490	3,481
Utah	6,535	6,354	5,891	4,974	4,559	4,822
Wyoming	8,023	7,692	7,119	5,763	4,924	5,563
Pacific	3,322	2,987	2,861	2,442	2,025	2,353
Alaska	f	f	f	f	f	f
California	2,703	2,308	2,224	2,069	1,666	1,965
Hawaii	f	f	f	f	f	f
Oregon	5,255	5,162	4,913	3,585	3,219	3,561
Washington	5,637	5,654	5,204	3,857	3,409	3,811

a. See glossary for definitions of (heating) degree days. Division heating degree days are the weighted average of all states in a region, according to the 1980 population. National heating degree days are the weighted average of all divisions, according to the 1980 population.

b. Heating season is defined as November through March period.

c. The transference of many weather stations between city locations and nearby airports at some time during the 30 year period has led to the introduction of slight inconsistencies in the average data.

d. Included in Maryland.

e. Includes the District of Columbia.

f. Not available.

R—Revised.

Source: National Oceanic and Atmospheric Administration, *Monthly State, Regional and National Heating Degree Days Weighted by Population*.

GAS FACTS

TABLE 81
PRODUCTION OF NATURAL GAS BY ALL INTERSTATE
NATURAL GAS PIPELINE COMPANIES, BY STATE, 1976-1980

(Millions of cubic feet)

Division and State	1976	1977	1978	1979	1980
Total United States	11,388,608	10,920,649	10,865,478	11,535,967	11,604,272
New England	0	0	0	0	0
Middle Atlantic	37,455	30,715	33,945	34,422	44,577
New Jersey	0	0	0	0	0
New York	3,129	2,100	1,812	5,385	2,729
Pennsylvania	34,326	28,615	32,133	29,037	41,848
East North Central	25,675	24,559	23,644	25,474	44,858
Illinois	131	0	192	186	241
Indiana	0	0	33	166	9,587
Michigan	0	0	0	0	0
Ohio	25,544	24,559	23,419	25,122	35,030
Wisconsin	0	0	0	0	0
West North Central	694,745	655,664	712,958	672,123	589,922
Iowa	0	0	0	0	0
Kansas	680,998	639,496	698,190	653,468	566,379
Minnesota	0	0	0	0	0
Missouri	0	0	0	0	0
Nebraska	3,829	5,366	3,565	3,645	3,322
North Dakota	9,918	10,802	11,203	14,168	19,103
South Dakota	0	0	0	842	1,118
South Atlantic	155,279	153,015	161,064	157,408	165,947
Delaware	0	0	0	0	0
District of Columbia	0	0	0	0	0
Florida	16,135	17,006	18,439	17,821	14,996
Georgia	0	0	0	0	0
Maryland	79	85	98	79	71
North Carolina	0	0	0	0	0
South Carolina	0	0	0	0	0
Virginia	6,688	5,512	8,542	8,587	7,818
West Virginia	132,377	130,412	133,985	130,921	143,062
East South Central	110,786	129,453	125,339	161,859	195,980
Alabama	5,801	8,705	13,259	17,310	36,592
Kentucky	61,371	61,369	50,590	40,859	47,555
Mississippi	43,614	59,379	61,490	103,690	111,833
Tennessee	0	0	0	0	0
West South Central	8,930,819	8,518,906	8,376,897	8,982,014	9,068,369
Arkansas	70,806	74,994	87,808	77,210	71,596
Louisiana	5,308,800	5,159,164	5,146,714	5,210,191	5,161,204
Oklahoma	919,642	866,478	857,564	944,622	953,838
Texas	2,631,571	2,418,270	2,284,811	2,749,991	2,881,731
Mountain	1,407,386	1,361,961	1,411,763	1,502,667	1,494,619
Arizona	0	0	0	0	0
Colorado	138,295	147,083	150,425	155,079	157,385
Idaho	0	0	0	0	0
Montana	26,601	23,432	23,190	36,908	30,458
Nevada	0	0	0	0	0
New Mexico	987,403	911,886	954,919	969,836	936,305
Utah	26,541	32,402	38,208	41,519	49,990
Wyoming	228,546	247,158	245,021	299,325	320,481
Pacific	0	0	0	0	0
Undifferentiated^a	26,463	46,376	19,868	0	0

a. Production not separable by FERC gas areas.

Source: Energy Information Administration, U.S. Department of Energy, *Gas Supplies of Interstate Natural Gas Pipeline Companies, 1976-1980*.

SALES—QUANTITIES

TABLE 82
TOTAL ETHANE AND LIQUEFIED PETROLEUM GAS SALES IN LIQUID FORM TO ULTIMATE CONSUMERS:
BY MAJOR USE, 1955-1980^a
(Thousands of gallons)

Year	Total	Gas Utility	Residential and Commercial	Industrial	Refinery Fuel	Internal Combustion Engine Fuel	Chemical Manufacturing	Synthetic Rubber	Other ^b
1955	6,122,718	213,760	2,801,379	423,431	101,033	651,821	1,493,177	406,210	31,907
1956	6,635,763	212,293	3,001,021	438,916	142,500	773,471	1,600,604	418,101	48,767
1957	6,939,121	231,155	3,067,070	441,474	122,405	805,056	1,732,338	418,189	121,434
1958	7,462,089	238,911	3,293,677	492,862	179,231	852,387	1,898,862	371,961	134,198
1959	8,919,161	182,903	3,934,792	439,200	136,830	889,698	2,525,910	513,941	295,887
1960	9,554,649	157,041	4,224,537	438,659	157,036	897,915	3,019,011	538,971	111,479
1961	9,797,883	168,989	4,318,215	402,428	166,572	880,315	3,239,479	519,637	102,248
1962	10,729,394	173,481	4,712,682	424,730	231,064	931,611	3,571,339	587,379	97,088
1963	11,570,278	216,627	5,053,157	493,208	356,958	999,363	3,771,413	599,556	79,996
1964	12,473,258	117,004	5,180,794	521,006	439,110	1,176,260	4,315,725	651,472	71,887
1965	12,908,899	121,895	5,345,972	526,420	153,258	1,193,818	4,802,780	679,894	84,872
1966	13,594,755	109,310	5,681,636	552,911	92,830	1,213,514	5,096,044	734,276	114,244
1967	14,466,144	96,596	6,221,839	635,079	c	1,152,264	5,444,023	756,259	160,084
1968	16,165,632	171,193	6,718,108	807,866	c	1,228,498	6,250,067	775,465	214,435
1969	18,716,376	183,062	7,656,872	946,574	c	1,467,094	7,487,137	757,050	216,567
1970	18,789,162	212,177	7,568,691	897,130	c	1,335,851	7,730,058	790,655	254,600
1971	19,183,542	209,778	7,668,413	908,965	c	1,324,126	8,809,319	d	262,941
1972	21,833,700	302,481	8,253,340	1,124,263	c	1,479,190	10,358,858	d	315,568
1973	22,199,048	344,436	7,845,991	1,094,898	c	1,409,302	10,977,239	d	527,182
1974	21,538,692	356,848	7,231,035	1,069,319	c	1,309,750	10,654,038	d	917,702
1975	20,455,690	402,752	7,019,989	1,081,929	c	1,162,396	9,403,057	d	1,360,567
1976	21,586,740	445,947	7,313,023	1,051,753	c	1,169,766	9,658,488	d	1,947,763
1977	21,823,452	566,115	7,168,585	1,043,455	c	1,144,930	9,853,749	d	2,086,618
1978	21,657,468	496,789	6,954,440	1,339,928	c	993,277	10,197,845	d	1,675,189
1979R	19,201,642	527,917	4,764,402	2,105,396	c	443,732	8,159,835	d	3,200,370
1980	18,603,882	594,403	4,372,576	2,217,409	c	508,011	7,807,957	d	3,103,526

a. Excludes LPG sales for export or for use in gasoline production. Includes ethane, propane, butane, isobutane, and butane-propane mixtures.

b. Includes secondary recovery of petroleum, agriculture uses, and use as substitute for natural gas feedstock.

c. Included in "Industrial."

d. Included in "Chemical Manufacturing."

Source: Energy Information Administration, U.S. Department of Energy, *Energy Data Reports: "Sales of Liquefied Petroleum Gases and Ethane in 1980."*

SECTION IX REVENUES

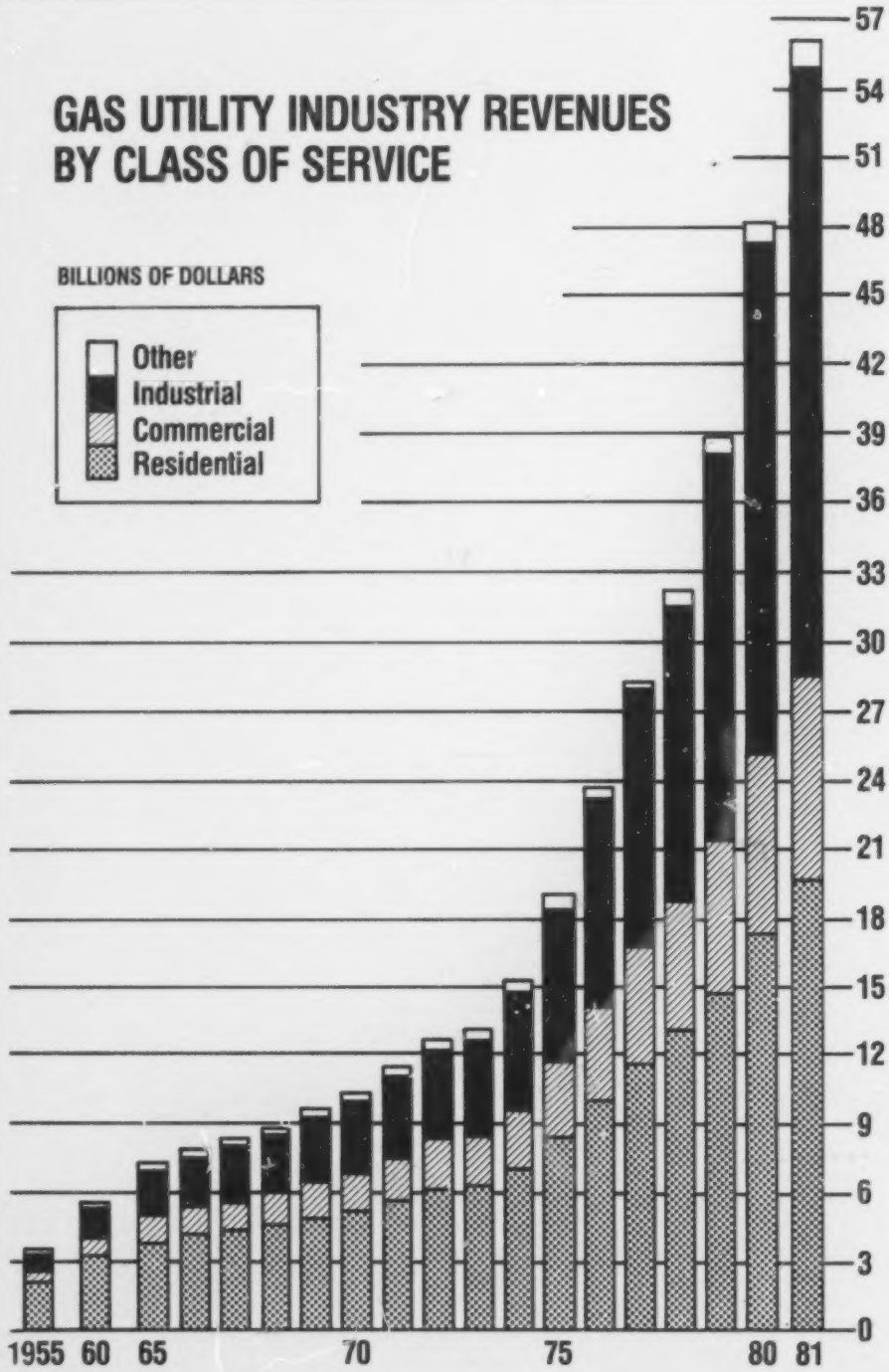
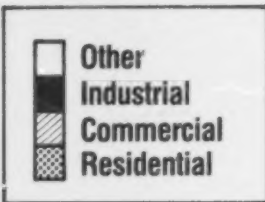
	<u>1981</u>	<u>% Change 81/80</u>
Gas Utility Industry		
(Thousands)		
Total	\$56,339,876	+16.6
Residential	19,217,630	+10.4
Commercial	9,231,103	+13.1
Industrial	27,246,220	+22.7
Other	644,923	+21.2
Resale	45,990,724	+21.5
Electric Generation	7,251,245	+30.4

GAS FACTS

CHART 16

**GAS UTILITY INDUSTRY REVENUES
BY CLASS OF SERVICE**

BILLIONS OF DOLLARS



REFERENCE: TABLE 83

REVENUES

TABLE 83
GAS UTILITY INDUSTRY REVENUES,
BY CLASS OF SERVICE, 1955-1981^a

(Thousands)

Year	Total	Residential	Commercial	Industrial ^b	Other ^b
1955	\$ 3,449,699	\$ 2,007,450	\$ 424,090	\$ 937,591	\$ 80,568
1956	3,850,071	2,236,500	471,258	1,065,568	76,745
1957	4,133,555	2,378,938	505,678	1,149,931	99,008
1958	4,568,321	2,657,616	571,212	1,228,980	110,513
1959	5,065,228	2,870,473	632,665	1,431,237	130,853
1960	5,617,387	3,177,430	723,448	1,563,285	153,224
1961	5,992,879	3,376,781	789,202	1,658,276	168,620
1962	6,444,860	3,603,266	874,366	1,795,894	171,334
1963	6,726,815	3,727,868	910,497	1,905,733	182,717
1964	7,132,685	3,894,870	998,386	2,048,527	190,902
1965	7,406,978	4,029,562	1,053,647	2,147,958	175,811
1966	7,869,888	4,195,331	1,135,352	2,334,654	204,551
1967	8,260,739	4,382,837	1,223,897	2,460,885	193,120
1968	8,781,152	4,567,307	1,315,409	2,675,261	223,175
1969	9,479,566	4,883,029	1,459,054	2,918,973	218,510
1970	10,282,611	5,207,335	1,620,446	3,181,206	273,624
1971	11,357,392	5,635,395	1,829,309	3,568,582	324,106
1972	12,465,235	6,094,171	2,063,803	3,943,011	364,250
1973	12,987,272	6,246,988	2,172,460	4,196,714	371,110
1974	15,242,481	6,899,395	2,539,300	5,391,139	412,647
1975 ^R	19,101,498	8,445,484	3,302,669	6,745,171	608,174
1976 ^R	23,701,211	9,941,013	4,075,009	9,434,751	250,438
1977 ^R	28,303,200	11,540,805	4,979,890	11,454,675	327,830
1978 ^R	32,149,921	12,938,865	5,695,666	13,138,576	376,814
1979 ^R	38,947,143	14,832,950	6,623,766	17,044,820	445,607
1980 ^R	48,312,416	17,408,147	8,159,366	22,212,947	531,956
1981	56,339,876	19,217,630	9,231,103	27,246,220	644,923

a. Excludes data for Alaska prior to 1961 and Hawaii prior to 1960.

b. Prior to 1976 "Other" electric generation (refer to Table 74) is included in the "Other" class of service. For 1976 and beyond all electric generation is included in the Industrial category.

R—Revised.

GAS FACTS

TABLE 84
GAS UTILITY INDUSTRY REVENUES,
BY STATE AND CLASS OF SERVICE, 1981

(Thousands)

Division and State	Total	Class of Service			
		Residential	Commercial	Industrial*	Other
United States	\$56,339,876	\$19,217,630	\$9,231,103	\$27,246,220	\$644,923
New England	1,796,040	941,515	486,445	354,772	13,310
Connecticut	459,517	227,934	126,194	105,058	331
Maine	14,333	4,268	6,287	3,778	0
Massachusetts	1,076,811	583,332	301,557	180,651	11,271
New Hampshire	51,023	24,029	16,941	9,478	575
Rhode Island	165,620	91,876	29,551	44,193	0
Vermont	28,736	10,076	5,913	11,614	1,133
Middle Atlantic	7,825,771	3,977,701	1,448,445	2,241,433	158,192
New Jersey	1,775,578	875,478	412,165	482,099	5,836
New York	3,058,504	1,821,727	534,727	593,044	109,006
Pennsylvania	2,991,689	1,280,496	501,553	1,166,290	43,350
East North Central	12,811,327	5,811,680	2,501,758	4,462,631	35,258
Illinois	3,861,739	1,825,729	797,841	1,236,954	1,215
Indiana	1,564,951	567,876	227,230	761,407	8,438
Michigan	2,921,472	1,390,760	661,913	868,724	75
Ohio	3,124,590	1,496,224	573,864	1,030,356	24,146
Wisconsin	1,338,575	531,091	240,910	565,190	1,384
West North Central	4,243,664	1,652,939	901,663	1,663,210	25,852
Iowa	834,090	301,653	167,030	362,839	2,568
Kansas	910,444	220,105	114,953	565,710	9,676
Minnesota	913,808	391,010	172,109	340,765	9,924
Missouri	1,008,526	503,875	291,370	209,937	3,344
Nebraska	417,379	159,847	96,764	160,564	204
North Dakota	81,319	38,292	36,426	6,465	136
South Dakota	78,098	38,157	23,011	16,930	0
South Atlantic	5,186,737	1,668,507	957,719	2,440,281	120,230
Delaware	105,394	37,654	18,398	47,862	1,480
District of Columbia	152,082	75,263	76,819	0	0
Florida	762,556	81,387	107,901	562,355	10,913
Georgia	1,144,876	431,273	194,904	508,836	9,863
Maryland	751,636	358,549	143,062	249,795	230
North Carolina	670,621	165,158	113,919	387,506	4,038
South Carolina	519,769	92,221	61,085	280,537	85,926
Virginia	591,012	236,439	152,948	194,130	7,495
West Virginia	488,791	190,563	88,683	209,260	285
East South Central	2,616,143	748,621	374,358	1,442,725	50,439
Alabama	799,126	241,572	98,046	457,290	2,218
Kentucky	564,991	246,525	102,366	197,773	18,327
Mississippi	583,116	113,820	51,342	395,002	22,952
Tennessee	668,910	146,704	122,604	392,660	6,942
West South Central	11,245,729	1,431,140	762,913	8,873,528	178,152
Arkansas	450,912	107,589	61,450	278,144	3,729
Louisiana	1,683,672	259,438	92,699	1,284,740	46,795
Oklahoma	1,077,328	194,853	108,668	772,450	1,357
Texas	8,033,817	869,260	500,096	6,538,190	126,271
Mountain	2,618,712	865,999	512,449	1,191,241	49,023
Arizona	455,778	121,850	68,533	259,726	5,669
Colorado	742,556	310,592	218,153	210,243	3,568
Idaho	179,892	37,379	38,655	103,858	0
Montana	188,031	64,850	48,484	66,143	8,554
Nevada	281,843	64,735	38,566	177,460	1,082
New Mexico	355,994	96,341	47,845	181,883	29,925
Utah	295,740	142,781	36,367	116,536	56
Wyoming	118,878	27,471	15,846	75,392	169
Pacific	7,995,753	2,119,528	1,285,355	4,576,403	14,467
Alaska	44,561	15,530	5,571	23,460	0
California	6,920,187	1,832,668	1,037,160	4,037,817	12,542
Hawaii	50,069	11,394	13,085	25,590	0
Oregon	369,619	104,154	81,135	184,330	0
Washington	611,317	155,782	148,404	305,206	1,925

*Includes Electric Generation—See Table 89 for breakout.

REVENUES

TABLE 85
GAS UTILITY INDUSTRY REVENUES, BY STATE,
1955-1981*

(Thousands)							
Division and State	1955	1960	1965	1970	1975	1980 ^R	1981
United States	\$3,449,699	\$5,617,387	\$7,406,978	\$10,282,611	\$19,101,498	\$48,312,416	\$56,339,876
New England	137,844	212,719	274,937	377,666	700,071	1,479,111	1,796,040
Connecticut	34,385	52,198	66,653	98,178	178,480	366,348	459,517
Maine	3,288	3,608	3,845	4,013	5,983	11,155	14,333
Massachusetts	83,648	131,588	171,049	228,224	425,411	905,414	1,076,811
New Hampshire	3,072	5,126	7,336	10,328	17,190	40,569	51,023
Rhode Island	12,071	18,803	24,599	34,360	65,982	132,190	165,620
Vermont	1,380	1,396	1,464	2,563	7,025	23,435	28,736
Middle Atlantic	702,954	1,068,271	1,342,428	1,753,799	2,940,846	6,591,785	7,825,771
New Jersey	113,207	192,315	268,622	372,672	594,560	1,397,083	1,775,578
New York	307,619	462,574	570,984	720,609	1,248,149	2,663,655	3,058,504
Pennsylvania	282,128	413,382	502,822	660,518	1,098,137	2,531,047	2,991,689
East North Central	836,988	1,394,218	1,995,933	2,888,886	5,033,327	11,584,314	12,811,327
Illinois	234,844	393,707	555,763	829,369	1,504,405	3,588,071	3,861,739
Indiana	83,758	135,593	218,436	356,270	530,454	1,341,428	1,564,951
Michigan	165,884	290,178	434,292	651,318	1,269,106	2,602,792	2,921,472
Ohio	304,392	483,987	625,011	789,008	1,254,154	2,875,396	3,124,590
Wisconsin	48,110	90,753	162,431	262,921	475,208	1,176,627	1,338,575
West North Central	360,139	540,961	701,789	982,976	1,585,864	3,778,157	4,243,664
Iowa	57,598	96,062	127,197	180,607	311,364	718,370	834,090
Kansas	77,092	100,563	125,238	178,128	282,119	815,547	910,444
Minnesota	68,250	113,648	156,680	218,398	352,170	750,994	913,808
Missouri	97,997	144,596	187,021	267,726	406,752	992,492	1,008,526
Nebraska	46,606	66,334	77,722	101,542	169,010	356,352	417,379
North Dakota	3,516	5,712	10,566	15,540	31,037	77,168	81,319
South Dakota	9,080	14,046	17,365	21,035	33,417	67,234	78,098
South Atlantic	251,976	476,032	631,577	941,975	1,538,752	4,160,755	5,186,737
Delaware	4,732	10,102	15,881	22,672	33,229	78,336	105,394
District of Columbia	20,584	26,868	29,602	34,635	54,671	120,837	152,082
Florida	19,972	47,537	73,357	120,509	146,526	611,114	762,556
Georgia	54,175	104,603	127,728	191,637	349,550	950,915	1,144,876
Maryland	50,017	87,037	113,321	163,999	272,830	598,324	751,636
North Carolina	10,954	30,669	54,773	106,051	165,659	495,459	670,621
South Carolina	7,966	23,344	42,736	74,858	130,662	402,503	519,769
Virginia	39,081	67,569	89,235	126,840	206,109	482,080	591,012
West Virginia	44,495	78,303	84,944	100,674	179,516	421,187	488,791
East South Central	183,932	312,695	365,717	509,350	775,705	2,306,319	2,616,143
Alabama	56,338	93,652	113,647	149,962	237,710	698,762	799,126
Kentucky	43,491	80,075	91,310	127,787	199,738	509,455	564,991
Mississippi	34,821	60,254	68,331	100,383	134,730	518,014	583,116
Tennessee	49,282	78,714	92,429	131,218	203,527	580,088	668,910
West South Central	404,335	642,063	771,223	1,066,433	2,953,148	8,951,915	11,245,729
Arkansas	40,176	58,303	83,252	125,928	175,862	408,334	450,912
Louisiana	82,473	141,741	165,926	219,303	386,609	1,215,482	1,683,672
Oklahoma	57,738	88,272	103,263	127,367	328,817	965,728	1,077,328
Texas	223,948	353,747	418,782	593,835	2,061,360	6,362,371	8,033,817
Mountain	149,959	246,824	325,757	456,593	920,668	2,366,176	2,618,712
Arizona	30,301	52,255	65,722	95,423	171,773	384,777	455,778
Colorado	50,380	69,462	88,404	120,563	241,901	713,628	742,556
Idaho	54	11,555	19,776	28,990	75,818	182,600	179,892
Montana	15,736	22,159	32,003	42,871	82,021	163,917	188,031
Nevada	2,762	8,786	17,544	32,383	79,858	196,982	281,843
New Mexico	22,104	38,804	43,638	56,975	125,617	333,855	355,994
Utah	19,651	32,269	43,572	55,273	101,164	284,725	295,740
Wyoming	8,971	11,534	15,098	24,115	42,516	105,692	118,878
Pacific	421,572	723,604	997,617	1,304,933	2,653,117	7,093,884	7,995,753
Alaska	b	b	4,575	11,678	24,829	38,725	44,561
California	401,969	653,350	875,875	1,117,573	2,193,048	6,076,193	6,920,187
Hawaii	b	5,003	6,053	7,714	24,125	45,162	50,069
Oregon	11,230	24,806	42,169	65,096	156,703	354,502	369,619
Washington	8,373	40,445	68,944	102,872	254,412	579,302	611,317

a. Excludes revenues from sales for resale.

b. Not available.

R—Revised.

GAS FACTS

TABLE 86
GAS UTILITY INDUSTRY REVENUES FROM GAS FOR RESALE,
BY STATE, 1955-1981*

(Thousands)							
Division and State	1955	1960	1965	1970	1975	1980 ^R	1981
United States	\$1,657,585	\$3,165,820	\$4,255,066	\$6,217,662	\$11,573,752	\$37,862,893	\$45,990,724
New England	37,000	82,195	110,807	168,196	382,550	851,449	992,510
Connecticut				51,891	125,226	222,022	265,241
Maine				0	0	0	0
Massachusetts				94,590	216,069	529,965	610,692
New Hampshire				5,319	5,744	17,577	21,211
Rhode Island				16,396	34,645	81,885	95,366
Vermont				0	866	0	0
Middle Atlantic	303,647	575,739	777,878	1,057,060	1,761,307	5,815,523	7,066,207
New Jersey				215,211	365,302	1,250,773	1,494,618
New York				371,895	532,961	1,829,091	2,318,382
Pennsylvania				469,951	863,044	2,735,659	3,253,207
East North Central	398,895	699,808	1,151,990	1,940,570	3,596,246	10,687,835	12,899,925
Illinois				529,299	1,041,633	3,412,478	4,114,145
Indiana				188,301	292,665	988,871	1,280,825
Michigan				278,232	659,019	1,804,423	2,331,387
Ohio				756,382	1,144,706	3,145,106	3,684,687
Wisconsin				188,355	458,223	1,336,957	1,488,921
West North Central	169,161	251,580	306,416	439,274	803,046	2,198,971	2,656,565
Iowa				105,106	202,852	517,052	533,589
Kansas				52,935	89,538	265,146	431,887
Minnesota				100,758	178,677	554,425	636,115
Missouri				127,783	231,990	628,970	782,869
Nebraska				42,394	77,384	174,217	205,393
North Dakota				2,186	7,695	22,277	21,704
South Dakota				8,114	14,910	36,884	45,008
South Atlantic	247,567	487,720	597,386	748,392	1,094,146	3,521,954	4,241,948
Delaware				680	1,170	2,894	3,584
District of Columbia				0	0	0	0
Florida				24,297	54,786	218,749	247,954
Georgia				122,268	217,592	709,353	922,717
Maryland				81,983	159,003	480,609	593,360
North Carolina				38,167	96,134	440,145	572,122
South Carolina				75,078	86,854	254,185	330,506
Virginia				99,200	177,878	542,737	597,391
West Virginia				306,719	300,729	873,282	974,314
East South Central	179,598	343,356	348,642	495,572	752,002	2,695,523	3,453,289
Alabama				79,205	140,282	495,051	616,103
Kentucky				156,277	169,609	528,686	639,998
Mississippi				92,771	163,268	632,103	918,443
Tennessee				167,320	278,843	1,039,683	1,278,745
West South Central	120,055	238,630	236,059	324,987	765,273	4,322,831	6,173,133
Arkansas				6,684	9,328	34,680	40,115
Louisiana				192,241	354,067	1,383,886	2,024,414
Oklahoma				33,698	91,809	422,361	663,428
Texas				92,363	310,069	2,481,904	3,445,176
Mountain	169,331	375,843	437,321	622,947	1,349,007	4,446,600	5,080,654
Arizona				482,102	935,305	3,093,184	3,557,928
Colorado				65,331	163,200	657,917	690,421
Idaho				24,852	96,221	228,724	277,996
Montana				3,435	7,289	25,957	23,933
Nevada				2,950	12,147	36,042	34,475
New Mexico				20,924	34,447	111,849	141,280
Utah				4,186	3,113	15,333	23,635
Wyoming				19,168	97,285	277,594	330,986
Pacific	32,331	110,949	288,567	420,664	1,070,175	3,322,207	3,426,493
Alaska				0	0	22,677	0
California				249,666	294,546	1,199,764	1,390,171
Hawaii				0	0	0	0
Oregon				120,229	598,295	1,665,022	1,569,362
Washington				50,769	177,334	434,744	466,960

*Includes natural gas only prior to 1970 and state breakdowns not available prior to 1970.

R—Revised.

REVENUES

TABLE 87
GAS UTILITY INDUSTRY FIRM AND INTERRUPTIBLE GAS REVENUES, BY STATE, 1981

(Thousands)

Division and State	Commercial			Industrial		
	Total	Firm	Interruptible	Total	Firm	Interruptible
United States	\$9,231,103	\$8,593,908	\$637,195	\$27,246,220	\$15,748,154	\$11,498,066
New England	486,443	440,518	45,925	354,772	207,213	147,559
Connecticut	126,194	120,729	5,465	105,058	84,819	20,239
Maine	6,287	6,287	0	3,778	3,778	0
Massachusetts	301,557	261,799	39,758	180,651	94,673	85,978
New Hampshire	16,941	16,941	0	9,478	4,895	4,583
Rhode Island	29,551	28,849	702	44,193	18,560	25,633
Vermont	5,913	5,913	0	11,614	488	11,126
Middle Atlantic	1,448,445	1,400,743	47,702	2,341,432	1,669,569	571,864
New Jersey	412,165	378,032	34,133	482,099	234,356	247,743
New York	534,727	525,531	9,196	593,044	432,618	160,426
Pennsylvania	501,553	497,180	4,373	1,166,290	1,002,595	163,695
East North Central	2,501,758	2,445,540	56,218	4,462,631	3,633,813	828,818
Illinois	797,215	796,108	1,107	1,236,726	1,086,927	149,799
Indiana	227,856	215,920	11,936	761,635	654,931	106,704
Michigan	661,913	654,728	7,185	868,724	692,412	176,312
Ohio	573,864	569,578	4,286	1,030,356	946,998	83,358
Wisconsin	240,910	209,206	31,704	565,190	252,545	312,645
West North Central	901,663	741,690	159,973	1,663,210	713,915	949,295
Iowa	167,030	139,650	27,380	362,839	264,959	97,880
Kansas	114,953	79,636	35,317	565,710	166,633	399,077
Minnesota	172,109	146,209	25,900	340,765	133,313	207,452
Missouri	291,370	236,867	54,503	209,937	51,560	158,377
Nebraska	96,764	91,466	5,298	160,564	95,463	65,101
North Dakota	36,426	26,880	9,546	6,465	0	6,465
South Dakota	23,011	20,982	2,029	16,930	1,987	14,943
South Atlantic	957,719	861,702	96,017	2,440,281	1,155,359	1,284,922
Delaware	18,398	17,449	949	47,862	36,774	11,088
District of Columbia	76,819	59,749	17,070	0	0	0
Florida	107,901	104,022	3,879	562,355	85,698	476,657
Georgia	194,904	194,057	847	508,836	72,309	436,527
Maryland	143,062	111,449	31,613	249,795	138,947	110,848
North Carolina	113,919	113,753	166	387,506	348,564	38,942
South Carolina	61,085	47,390	13,695	280,537	128,198	152,339
Virginia	152,948	128,293	24,655	194,130	136,923	57,207
West Virginia	88,683	85,540	3,143	209,260	207,946	1,314
East South Central	374,358	348,587	25,851	1,442,725	993,750	448,975
Alabama	98,046	86,972	11,074	457,290	273,394	183,896
Kentucky	102,366	94,140	8,226	197,773	105,310	92,463
Mississippi	51,342	51,334	8	395,002	384,493	10,509
Tennessee	122,604	116,061	6,543	392,660	230,553	162,107
West South Central	764,913	746,889	16,024	8,873,524	6,216,444	2,657,080
Arkansas	61,450	60,349	1,101	278,144	233,208	44,936
Louisiana	92,699	92,662	37	1,284,740	819,965	464,775
Oklahoma	108,668	96,694	11,974	772,450	471,333	301,117
Texas	500,096	497,184	2,912	6,538,190	4,691,938	1,846,252
Mountain	512,449	504,839	7,610	1,191,241	686,072	505,169
Arizona	68,533	68,533	0	259,726	259,461	265
Colorado	218,153	217,309	844	210,243	54,851	155,392
Idaho	38,655	36,728	1,927	103,858	94,060	9,798
Montana	48,484	47,512	972	66,143	4,005	62,138
Nevada	38,566	38,566	0	177,460	177,460	0
New Mexico	47,845	44,095	3,750	181,883	49,531	132,352
Utah	36,367	36,367	0	116,536	26,319	90,217
Wyoming	15,846	15,729	117	75,392	20,385	55,007
Pacific	1,285,355	1,103,480	181,875	4,576,403	472,019	4,104,384
Alaska	5,571	5,571	0	23,460	6,102	17,358
California	1,037,160	895,391	141,769	4,037,817	221,223	3,816,594
Hawaii	13,085	13,085	0	25,590	25,590	0
Oregon	81,135	78,568	2,567	184,330	88,360	95,970
Washington	148,404	110,865	37,539	305,206	130,744	174,462

GAS FACTS

TABLE 88
GAS UTILITY INDUSTRY REVENUES FROM GAS
USED FOR ELECTRIC GENERATION, 1955-1981^a

(Thousands)

Year	Revenue					Total Revenue and Credits
	Industrial ^b		Other	Total Revenue	Credits ^c	
	Firm	Interruptible				
1955		\$126,296	\$ 35,157	\$ 161,453	\$ 39,196	\$ 200,649
1956		149,241	33,174	182,415	38,386	220,801
1957		159,909	38,469	198,378	47,608	245,986
1958		178,563	38,393	216,956	61,494	278,450
1959		205,448	52,050	257,498	54,441	311,939
1960		228,474	64,585	293,059	73,887	366,946
1961		247,811	75,437	323,248	74,988	398,236
1962		264,637	86,810	351,447	75,747	427,194
1963		282,932	96,808	379,740	73,517	453,257
1964		304,974	107,193	412,167	77,919	490,086
1965		293,999	94,119	388,118	72,919	461,037
1966		325,605	114,051	439,656	73,073	512,729
1967		346,912	96,643	443,555	75,298	518,853
1968		380,995	117,159	498,154	80,816	578,970
1969		426,325	112,454	538,779	71,747	610,526
1970		520,882	137,553	658,435	92,443	750,878
1971	\$ 237,111	\$ 335,539	160,035	732,685	201,213	933,898
1972	277,344	294,885	201,865	774,094	193,655	967,749
1973	185,106	309,653	214,419	709,178	197,418	906,596
1974	271,516	395,889	225,124	892,529	269,148	1,161,677
1975	352,660	473,951	361,969	1,188,580	293,936	1,482,516
1976 ^R	594,784	1,075,885	d	1,670,669	315,935	1,986,604
1977 ^R	779,919	1,535,133	d	2,315,052	379,274	2,694,326
1978 ^R	953,406	1,452,434	d	2,405,840	330,572	2,736,412
1979 ^R	1,424,871	2,063,626	d	3,488,497	721,948	4,210,445
1980 ^R	2,405,909	3,155,664	d	5,561,573	1,173,364	6,734,937
1981	3,012,983	4,238,262	d	7,251,245	1,233,061	8,484,306

a. Excludes revenues from direct sales by producers to straight electric utilities.

b. No breakdown available prior to 1971.

c. Represents "Revenues" from transfers of gas for electric generation. Such "Revenues" are credits by the electric department to the gas department of combination gas and electric companies.

d. Other now included with Industrial to conform to the definition of industrial services.

R—Revised.

REVENUES

TABLE 89
GAS UTILITY INDUSTRY REVENUES, GAS USED FOR
ELECTRIC GENERATION, BY STATE, 1981^a

Division and State	(Thousands)			Credits ^b	Total Revenue and Credits
	Industrial Revenue				
	Firm	Interruptible	Total		
United States	\$3,012,983	\$4,238,262	\$7,251,245	\$1,233,061	\$3,484,306
New England	0	36,782	36,782	0	36,782
Connecticut	0	0	0	0	0
Maine	0	0	0	0	0
Massachusetts	0	28,032	28,032	0	28,032
New Hampshire	0	0	0	0	0
Rhode Island	0	8,750	8,750	0	8,750
Vermont	0	0	0	0	0
Middle Atlantic	5,373	95,110	100,483	696,864	797,347
New Jersey	0	74,053	74,053	241,893	315,946
New York	444	0	444	454,895	455,339
Pennsylvania	4,929	21,057	25,986	76	26,062
East North Central	89,179	37,909	127,088	17,863	144,931
Illinois	46,714	4,741	51,455	1,679	53,134
Indiana	494	0	494	14,735	15,229
Michigan	35,618	9,517	45,135	0	45,135
Ohio	690	3,516	4,206	984	5,190
Wisconsin	5,663	20,135	25,798	445	26,243
West North Central	13,713	37,579	101,292	11,407	112,699
Iowa	73	5,525	5,598	2,575	8,173
Kansas	5,248	70,633	75,881	2,585	78,466
Minnesota	304	4,255	4,559	3,977	8,536
Missouri	27	6,208	6,235	2,245	8,480
Nebraska	8,061	896	8,957	0	8,957
North Dakota	0	62	62	0	62
South Dakota	0	0	0	25	25
South Atlantic	5,910	284,260	290,170	48,945	339,115
Delaware	0	0	0	16,991	16,991
District of Columbia	0	0	0	0	0
Florida	2,486	272,921	275,407	0	275,407
Georgia	0	9,535	9,535	0	9,535
Maryland	0	0	0	14,840	14,840
North Carolina	1,874	725	2,599	0	2,599
South Carolina	1,550	71	1,621	12,513	14,134
Virginia	0	0	0	4,601	4,601
West Virginia	0	1,008	1,008	0	1,008
East South Central	125,064	43,129	168,193	3,411	171,604
Alabama	0	0	0	0	0
Kentucky	0	0	0	2,952	2,952
Mississippi	125,064	40,108	165,172	0	165,172
Tennessee	0	3,021	3,021	459	3,480
West South Central	2,475,813	907,087	3,382,900	294,746	3,677,646
Arkansas	3,577	4,920	8,497	0	8,497
Louisiana	437,117	45,290	482,407	174,541	656,948
Oklahoma	224,399	55,722	280,121	53	280,174
Texas	1,810,720	801,155	2,611,875	120,152	2,732,027
Mountain	295,843	102,939	398,782	159,845	558,627
Arizona	127,904	950	128,854	46,673	175,527
Colorado	5,954	36,152	42,106	24,003	66,109
Idaho	0	0	0	0	0
Montana	0	85	85	8,756	8,841
Nevada	129,864	0	129,864	78,732	208,596
New Mexico	32,121	65,752	97,873	1,651	99,524
Utah	0	0	0	0	0
Wyoming	0	0	0	30	30
Pacific	2,088	2,643,467	2,645,555	0	2,645,555
Alaska	0	17,358	17,358	0	17,358
California	0	2,625,020	2,625,020	0	2,625,020
Hawaii	0	0	0	0	0
Oregon	0	1,089	1,089	0	1,089
Washington	2,088	0	2,088	0	2,088

a. Excludes revenues from direct sales by producers to electric utilities.

b. Represents "Revenues" from transfers of gas for electric generation. Such "Revenues" are credits by the electric department to the gas department: of combination gas and electric companies.

GAS FACTS

TABLE 90
GAS UTILITY INDUSTRY REVENUES, BY TYPE OF INDUSTRY CLASSIFICATION AND BY DIVISION, 1981

(Thousands)

Industry Classification	Total U.S.	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Agriculture, forestry and fisheries	\$ 132,385	\$ 2,077	\$ 15,974	\$ 22,061	\$ 16,818	\$ 3,834	\$ 550	\$ 8,993	\$ 6,008	\$ 56,078
Petroleum and natural gas production	167,424	0	2	910	11,955	0	3,934	73,058	14,287	63,269
Other mining	242,677	265	0	15,093	842	41,512	3	110,423	48,105	26,434
Electric services*	8,464,306	36,782	797,347	144,931	112,699	339,115	171,604	3,677,646	558,627	2,645,555
Other transportation, communication, and public utilities	272,661	29,184	8,503	65,562	71,150	4,500	2,155	17,317	10,770	63,520
Hotels, rooming houses, and camps	114,461	2,372	22,473	32,061	3,192	3,824	0	4,877	1,283	44,379
Laundries, cleaning and dyeing	87,472	1,145	1,578	29,291	300	2,853	0	623	0	51,682
Other services	1,175,216	30,379	106,346	527,635	48,839	57,048	17,301	36,393	33,495	317,780
Other non-manufacturing	665,671	23,612	94,278	259,005	10,723	25,260	9,387	5,065	26,503	211,838
Food and kindred products	1,219,002	14,385	112,713	376,564	174,352	69,067	26,368	40,464	71,265	333,820
Textile products, apparel, fabrics, etc.	222,628	13,016	21,644	10,929	166	137,342	18,759	2,881	0	17,891
Furniture, lumber, and other wood products	192,435	42	5,584	19,792	3,758	5,717	50,449	50,116	1,420	55,557
Paper and allied products	950,411	12,896	86,512	209,591	16,171	139,835	182,801	99,552	22,964	190,089
Carbon black	79,028	204	243	2,393	47,119	3,239	1,545	21,557	0	2,728
Chemicals and allied products (except carbon black)	3,003,570	18,803	133,908	475,943	281,486	479,379	172,119	1,160,586	96,247	185,099
Petroleum refining	1,518,329	265	11,034	65,649	83,759	23,711	22,671	820,129	52,424	438,987
Rubber and miscellaneous plastic products	214,893	2,837	25,470	64,708	14,637	17,897	21,393	46,452	3,969	17,530
Glass products	579,482	15,649	170,387	150,593	6,397	84,835	25,026	25,712	0	100,883
Cement	122,175	197	2,291	4,125	12,303	28,356	9,911	13,821	12,223	38,948
Clay products, pottery, etc.	253,975	2,948	36,493	37,783	31,039	79,612	23,532	4,821	8,161	29,586
Other stone products and miscellaneous	308,279	5,789	37,217	57,551	22,192	56,180	9,690	1,556	4,031	114,073
Primary iron and steel industries	1,938,035	13,403	479,737	926,017	96,918	161,735	105,349	5,330	61,013	88,533
Primary non-ferrous industries	891,967	11,604	130,598	239,541	7,344	36,586	83,332	152,398	133,700	96,864
Fabricated metal products, machinery equipment and supplies	828,605	23,207	126,144	424,917	55,373	36,310	33,072	15,164	7,424	106,994
Transportation equipment	309,804	3,832	43,556	162,989	22,887	15,153	8,500	3,666	1,665	47,556
Other manufacturing	394,254	15,592	61,904	141,557	17,040	25,245	21,366	15,272	19,385	76,893
Public administration	261,843	3,859	26,147	48,202	14,274	51,960	8,129	8,208	18,731	82,333
Total (Sum)*	\$24,631,208	\$284,348	\$2,528,063	\$4,515,393	\$1,183,733	\$1,936,114	\$1,028,946	\$6,412,080	\$1,213,700	\$5,504,891
Total Commercial, Industrial and "Other" revenues of co.'s reporting this table	\$28,903,724	\$688,885	\$3,614,743	\$5,945,052	\$2,134,270	\$2,625,367	\$1,342,652	\$5,292,325	\$1,525,668	\$5,734,842
Total Gas Utility Industry Commercial, Industrial and "Other" revenues	\$37,122,246	\$854,525	\$3,648,870	\$6,999,647	\$2,590,725	\$3,518,230	\$1,867,522	\$9,814,589	\$1,752,713	\$5,876,225

*Includes the following "revenues" from transfers of gas for electric generation not included in Total Commercial, Industrial and "Other" revenues of companies reporting this table or in Total Gas Utility Industry revenues. Such "revenues" represent credits by the electric department of combination gas and electric companies.

\$1,233,061 \$0 \$696,864 \$17,843 \$11,407 \$48,945 \$3,411 \$294,745 \$159,845 \$0

REVENUES

TABLE 91
REVENUES FROM GAS UTILITY INDUSTRY SALES,
BY TYPE OF INDUSTRY CLASSIFICATION, 1955-1981

(Thousands)							
Industry Classification	1955	1960	1965	1970	1975	1980 ^R	1981
Agriculture, forestry and fisheries	\$ 2,391	\$ 3,447	\$ 4,553	\$ 13,373	\$ 41,816	\$ 137,952	\$ 132,385
Petroleum and natural gas production	7,387	13,023	23,092	29,116	67,556	90,824	167,424
Other mining	3,122	10,738	18,697	18,744	44,664	214,732	242,677
Electric services ^a	200,649	366,946	461,037	750,879	1,482,516	6,734,937	8,484,306
Other transportation, communications and public utilities	3,101	6,212	12,867	36,820	99,971	276,149	272,661
Hotels, rooming houses, camps	2,538	5,225	12,317	34,089	85,216	97,974	114,461
Laundries, cleaning and dyeing	682	1,495	7,969	12,508	30,095	76,146	87,472
Other services	8,722	11,615	25,434	82,737	274,992	1,025,544	1,175,216
Other non-manufacturing	11,118	13,826	32,472	105,186	228,982	571,193	665,671
Ordnance	4,025	5,362	5,938	14,216	b	b	b
Food and kindred products	33,467	57,331	88,419	140,016	352,172	991,498	1,219,002
Textile products, apparel, fabrics, etc.	4,189	7,459	16,613	32,563	58,468	191,077	222,628
Furniture, lumber and other wood products	2,055	7,452	18,713	25,097	65,210	166,086	192,435
Paper and allied products	24,917	54,020	80,392	137,086	258,795	760,852	950,411
Carbon black	396	2,435	9,198	12,613	26,646	65,844	79,028
Chemicals and allied products (except carbon black)	61,341	154,556	208,820	303,261	821,397	2,158,091	3,003,570
Petroleum refining	49,685	87,605	88,023	167,312	502,402	1,333,883	1,518,629
Rubber and miscellaneous plastic products	8,261	5,454	12,314	20,483	47,694	164,015	214,893
Glass products	30,232	59,693	73,844	92,362	183,233	524,302	579,482
Cement	28,303	47,540	52,129	81,001	130,210	135,038	122,175
Clay products, pottery, etc.	24,242	49,764	60,873	63,707	111,670	250,795	253,975
Other stone products and miscellaneous	7,798	11,335	26,502	61,841	103,389	277,604	308,279
Primary iron and steel industries	72,362	149,646	232,470	313,595	568,959	1,533,627	1,938,035
Primary non-ferrous industries	42,724	58,181	88,218	89,949	268,145	768,053	891,967
Fabricated metal products, machinery equipment and supplies	30,284	55,360	93,760	162,290	319,800	729,513	828,605
Transportation equipment	20,041	30,767	53,093	92,514	194,678	286,168	309,804
Other manufacturing	8,143	13,053	23,883	45,777	129,238	377,918	394,254
Public Administration	c	c	c	c	74,956	227,343	261,843
Total (Sum)^a	\$692,175	\$1,289,540	\$1,831,640	\$2,939,135	\$ 6,572,870	\$20,167,158	\$24,631,288
Total Commercial, Industrial and "Other" revenues of co.'s reporting this table	\$812,651	\$1,514,995	\$2,123,185	\$3,028,083	\$ 9,473,153	\$23,675,795	\$28,903,724
Total Gas Utility Industry Commercial, Industrial and "Other" revenues^d	\$1,018,159	\$1,716,509	\$2,323,769	\$3,454,830	\$10,628,839	\$30,396,711	\$37,122,246

a. Includes the following "revenues from transfers of gas for electric generation not included in Total Commercial, Industrial and "Other" revenues of companies reporting this table or in Total Gas Utility Industry revenues. Such "revenues" represent credits by the electric department to the gas department of combination gas and electric companies. "Revenues" in thousands of dollars are: 1955-39,196; 1960-73,887; 1965-72,919; 1970-92,443; 1975-293,936; 1980-1,173,364; and 1981-1,233,061.

b. Classification eliminated.

c. New classification in 1972.

d. Includes Industrial and "Other" sales only prior to 1971.

R--Revised.

GAS FACTS

TABLE 92
GAS UTILITY INDUSTRY REVENUES, BY QUARTER AND CLASS OF SERVICE,
1955-1981

(Thousands)

Year and Quarter	Total	Residential	Commercial	Industrial*	Other*
1955					
First	\$1,177,002	\$ 776,007	\$ 162,217	\$ 217,670	\$ 21,108
Second	761,042	422,305	86,696	232,769	19,272
Third	558,162	244,971	53,951	240,137	19,103
Fourth	933,803	549,888	116,440	246,459	21,016
1960					
First	2,033,980	1,304,810	297,337	385,053	46,780
Second	1,278,858	701,603	153,028	389,985	34,242
Third	860,134	358,237	83,575	388,519	29,803
Fourth	1,431,263	803,400	186,039	399,440	42,384
1965					
First	2,688,389	1,667,580	438,864	528,598	53,347
Second	1,713,833	909,991	230,269	535,235	38,338
Third	1,151,283	461,313	121,320	531,538	37,112
Fourth	1,847,096	965,096	261,769	552,222	47,009
1970					
First	3,742,316	2,197,999	687,117	780,927	76,273
Second	2,342,672	1,136,333	346,748	797,906	61,685
Third	1,624,621	578,747	182,163	803,503	60,208
Fourth	2,573,002	1,294,256	404,418	798,870	75,458
1974					
First	4,962,348	2,637,502	936,945	1,282,042	105,859
Second	3,524,656	1,541,800	550,486	1,346,119	86,251
Third	2,658,833	827,067	334,506	1,386,447	110,813
Fourth	4,096,644	1,893,026	717,363	1,376,531	109,724
1975					
First	6,186,624	3,303,345	1,241,263	1,501,044	140,972
Second	4,443,028	1,972,484	734,954	1,619,141	116,449
Third	3,389,737	987,079	438,859	1,776,684	187,115
Fourth	5,054,934	2,182,576	887,491	1,821,229	163,638
1976^R					
First	7,640,244	3,890,616	1,531,385	2,147,371	70,872
Second	5,130,081	1,974,961	781,438	2,323,555	50,127
Third	4,192,685	1,109,426	515,383	2,511,518	56,358
Fourth	6,738,200	2,966,010	1,246,803	2,452,307	73,081
1977^R					
First	9,847,887	5,157,004	2,044,743	2,540,054	106,087
Second	5,898,652	2,118,485	930,741	2,780,625	68,801
Third	5,032,784	1,220,430	664,815	3,080,794	66,745
Fourth	7,523,878	3,044,890	1,339,590	3,053,202	86,197
1978^R					
First	11,443,834	5,794,334	2,412,856	3,106,186	130,458
Second	6,946,269	2,533,334	1,125,102	3,213,436	74,397
Third	5,548,952	1,309,307	690,271	3,477,345	72,029
Fourth	8,210,868	3,301,893	1,467,438	3,341,609	99,930
1979^R					
First	13,317,971	6,544,017	2,744,291	3,860,146	169,518
Second	8,158,475	2,823,066	1,259,409	4,003,476	72,524
Third	6,809,065	1,517,166	796,336	4,427,445	68,117
Fourth	10,661,631	3,948,701	1,823,730	4,753,753	135,448
1980^R					
First	16,407,268	7,280,516	3,236,147	5,694,464	196,141
Second	10,062,862	3,360,788	1,562,788	5,040,153	99,133
Third	8,571,603	1,774,379	1,034,304	5,680,835	82,090
Fourth	13,270,678	4,992,464	2,326,127	5,797,495	154,592
1981					
First	18,875,308	8,325,493	3,723,282	6,595,050	231,483
Second	12,145,967	3,436,654	1,690,993	6,890,857	127,463
Third	10,140,106	1,956,892	1,167,609	6,910,690	104,915
Fourth	15,178,495	5,498,591	2,649,219	6,849,623	181,062

*Prior to 1976 "Other" electric generation (see Table 74) is included in the "Other" class of service. For 1976 and beyond all electric generation is included in the Industrial category.
R--Revised.

SECTION X PRICES

	<u>1981</u>	<u>% Change 81/80</u>
Gas Utility Industry		
(/MMBtu)		
Total	\$ 3.66	+16.9
Residential	4.18	+15.6
Commercial	3.91	+17.2
Industrial	3.32	+18.7
Other	3.25	+23.1
Wellhead (\$/Mcf)	2.00	+24.5
City Gate	2.88	+19.3
Electric	17.26	+19.4
Number 2 Fuel Oil	8.95	+24.1

GAS FACTS

TABLE 93
AVERAGE CONSUMER PRICE INDEXES, 1955-1981^a

(1967 = 100)

Year	All Items	Total Food	Apparel ^b and Upkeep	Shelter ^c	Gas and Electricity	Fuel Oil ^d and Coal	House Furnishings ^e and Operation	Transportation	Medical Care	Personal Care	Reading and Recreation	Other Goods and Services ^f
1955	80.2	81.6	84.8	79.1	87.5	82.4	99.2	77.4	64.8	77.9	76.7	79.8
1960	88.6	88.0	89.6	87.8	98.6	89.2	99.3	89.6	79.1	90.1	87.3	87.8
1961	89.6	89.1	90.2	88.5	99.4	91.0	98.7	90.6	81.4	90.6	89.3	88.5
1962	90.6	89.9	90.5	89.6	99.4	91.5	98.1	92.5	83.5	92.2	91.3	89.1
1963	91.7	91.2	91.9	90.7	99.4	93.2	97.7	93.0	85.6	93.4	92.8	90.6
1964	92.2	92.4	92.7	92.2	99.4	92.7	97.6	94.3	87.3	94.6	95.0	92.0
1965	94.5	94.4	93.7	93.8	99.4	94.6	97.1	95.9	89.5	95.2	94.2	
1966	97.2	99.1	96.1	96.8	99.6	97.0	98.0	97.2	97.1	97.5	97.2	
1967	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968	104.2	103.6	105.4	104.8	100.9	103.1	103.9	103.2	106.1	104.2	104.7	104.6
1969	109.8	108.9	111.5	113.3	102.8	105.6	109.0	107.2	113.4	109.3	108.7	110.3
1970	116.3	114.9	116.1	123.6	107.3	110.1	113.4	112.7	120.6	113.2	113.4	116.2
1971	121.3	118.4	119.8	126.8	114.7	117.5	118.1	118.6	128.4	116.8	119.3	122.2
1972	125.3	123.5	122.3	134.5	120.5	118.5	121.0	119.9	132.5	119.8	122.8	126.1
1973	133.1	141.4	126.8	140.7	126.4	136.0	124.9	123.7	137.7	125.2	125.9	129.0
1974	147.7	161.7	136.2	154.4	145.8	214.6	140.5	137.7	150.5	138.3	133.8	137.2
1975	161.2	175.4	142.3	169.7	169.6	235.3	158.1	150.6	168.6	150.7	144.4	147.4
1976	170.5	180.8	147.6	179.0	189.0	250.8	168.5	165.5	184.7	160.5	151.2	153.3
1977	181.5	192.2	154.2	191.1	213.4	283.4	177.0	177.2	202.4	170.9	157.9	159.2
1978	195.3	211.2	159.5	210.3	232.6	298.3	177.0	185.8	219.4	182.0	g	183.2
1979	217.7	234.7	166.4	240.3	257.6	403.6	188.9	212.8	240.1	195.5	g	196.3
1980	247.0	255.3	177.4	283.1	301.2	557.2	202.9	250.5	267.2	212.7	g	213.6
1981	272.4	274.6	186.9	314.7	345.9	675.9	221.3	280.0	294.5	232.0	g	235.7

a. Applicable to "wage-earners and clerical workers in urban United States."

b. Includes apparel only prior to June 1964.

c. Includes hotel and motel rates.

d. Starting in 1978 includes bottled gas.

e. Includes house furnishings only prior to 1969.

f. Prior to 1978 included alcoholic beverages, now found in food and beverages; now includes personal care and education—related expenses, formerly found in health and recreation.

g. Not available.

Source: Bureau of Labor Statistics. *The Consumer Price Index*, 1981.

PRICES

TABLE 94
AVERAGE WELLHEAD PRICES OF NATURAL GAS,
BY STATE, 1955-1980*

(¢/MCF)								
Division and State	1955	1960	1965	1970	1975	1978	1979	1980
United States	10.4¢	14.0¢	15.6¢	17.1¢	44.5¢	90.5¢	117.8¢	160.3¢
New England	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Atlantic	29.9	31.8	26.9	28.0	68.0	90.1	131.8	210.2
New Jersey	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New York	29.5	30.9	30.8	30.3	74.0	119.0	126.6	194.9
Pennsylvania	29.9	31.8	26.7	27.9	67.5	86.0	132.6	212.7
East North Central	19.0	21.0	23.1	26.4	66.6	135.9	176.8	217.6
Illinois	14.2	12.5	11.7	15.7	70.0	129.0	186.1	190.0
Indiana	12.4	18.8	23.6	23.7	39.0	71.0	105.4	135.0
Michigan	11.5	21.4	25.1	26.7	63.4	119.7	174.0	235.7
Ohio	22.5	23.5	23.6	27.1	70.6	157.0	180.5	197.7
Wisconsin	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
West North Central	12.0	11.8	13.4	14.1	17.5	56.7	77.0	79.5
Iowa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kansas	11.1	11.7	13.3	14.0	17.2	57.0	75.6	77.2
Minnesota	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Missouri	20.0	25.0	24.5	24.5	34.0	0.0	0.0	0.0
Nebraska	20.4	17.5	14.6	17.1	54.1	68.0	85.0	82.9
North Dakota	7.7	11.4	16.0	16.4	23.0	46.2	128.0	118.8
South Dakota	0.0	0.0	0.0	0.0	0.0	0.0	210.7	NA
South Atlantic	23.8	26.2	23.4	25.5	50.4	86.6	120.1	274.2
Delaware	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Florida	10.0	16.2	12.9	0.0	97.3	139.0	157.2	173.0
Georgia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maryland	20.1	26.6	25.2	24.9	27.0	61.4	103.6	45.6
North Carolina	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South Carolina	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Virginia	26.8	27.1	29.9	30.8	51.5	131.3	168.1	285.0
West Virginia	23.8	26.2	23.5	25.4	36.9	65.8	105.0	300.0
East South Central	14.0	20.5	19.3	20.7	59.3	111.1	159.6	223.2
Alabama	6.8	7.3	12.7	13.9	87.0	150.0	203.9	318.6
Kentucky	23.7	24.4	23.6	24.6	54.0	58.0	94.7	89.3 ^a
Mississippi	9.6	18.8	17.3	18.4	49.6	114.6	160.0	231.7
Tennessee	12.8	17.5	19.0	19.9	43.0	164.0	170.0	176.0
West South Central	8.7	13.1	14.6	16.7	45.6	90.8	116.7	156.9
Arkansas	5.6	11.9	15.6	16.3	34.7	75.0	95.9	69.6
Louisiana	11.3	17.1	18.2	19.3	42.3	83.6	111.5	160.7 ^a
Oklahoma	7.4	11.9	13.8	15.6	32.0	90.2	112.4	150.7
Texas	8.0	11.3	12.9	14.4	51.9	99.5	123.4	156.5 ^b
Mountain	8.9	11.2	12.1	14.3	38.2	92.0	129.4	172.6
Arizona	0.0	0.0	12.1	17.1	28.0	37.0	41.3	NA
Colorado	9.4	11.9	12.9	14.7	48.0	84.0	141.0	147.0
Idaho	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Montana	6.7	7.1	8.2	10.3	43.3	84.7	121.1	145.4
Nevada	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Mexico	8.6	10.7	11.8	14.3	40.5	98.8	136.6	175.8
Utah	13.9	18.0	12.5	15.1	48.0	64.3	71.6	111.7
Wyoming	8.5	12.0	13.5	14.7	33.7	79.3	113.0	192.0
Pacific	22.2	26.7	30.8	31.0	56.7	102.7	115.0	210.7
Alaska	0.0	12.2	24.8	24.6	30.2	52.1	51.8	73.2
California	22.2	26.7	30.9	32.1	70.0	135.7	170.5	313.0
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oregon	0.0	0.0	0.0	0.0	0.0	0.0	213.0	240.0
Washington	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

a. Value data is for the period beginning June 1, 1980 and ending May 31, 1981.

b. Weighted average value obtained from separate onshore and OCS average value calculations.

NA—Not available.

*Reflects price at first point of transfer, representing sales made by producers. The 1981 U.S. average wellhead price of natural gas is 199.5¢.

Source: Energy Information Administration, U.S. Department of Energy, *Natural Gas Annual*, 1980.

GAS FACTS

TABLE 95
GAS UTILITY INDUSTRY AVERAGE PRICES
BY CLASS OF SERVICE, 1955-1981*

(\$/MMBtu)

Year	Total	Residential	Commercial	Industrial	Other
1955	\$0.52	\$0.90	\$0.70	\$0.27	\$0.29
1956	0.53	0.91	0.72	0.28	0.29
1957	0.54	0.92	0.72	0.28	0.28
1958	0.57	0.94	0.75	0.30	0.29
1959	0.58	0.97	0.76	0.31	0.31
1960	0.60	1.00	0.79	0.33	0.33
1961	0.62	1.02	0.80	0.35	0.34
1962	0.63	1.02	0.80	0.35	0.34
1963	0.62	1.02	0.80	0.35	0.35
1964	0.62	1.01	0.78	0.35	0.36
1965	0.62	1.01	0.78	0.35	0.36
1966	0.61	1.00	0.78	0.35	0.36
1967	0.61	1.00	0.78	0.35	0.36
1968	0.61	1.00	0.77	0.35	0.36
1969	0.62	1.01	0.78	0.36	0.39
1970	0.64	1.06	0.81	0.38	0.41
1971	0.68	1.12	0.85	0.41	0.38
1972	0.73	1.19	0.91	0.45	0.41
1973	0.79	1.25	0.95	0.50	0.44
1974	0.95	1.42	1.11	0.66	0.60
1975	1.29	1.69	1.38	0.99	0.94
1976 ^R	1.60	1.98	1.68	1.31	1.36
1977 ^R	1.97	2.33	2.07	1.69	1.74
1978 ^R	2.18	2.53	2.28	1.90	1.79
1979 ^R	2.52	2.92	2.66	2.23	1.94
1980 ^R	3.13	3.61	3.34	2.79	2.64
1981	3.66	4.18	3.91	3.32	3.25

*Excludes data for Alaska prior to 1961 and Hawaii prior to 1960.

R—Revised.

PRICES

TABLE 96
GAS UTILITY INDUSTRY AVERAGE PRICES,
BY STATE AND CLASS OF SERVICE, 1981

Division and State	Total	Class of Service			
		Residential	Commercial	Industrial ^a	Other
United States	\$3.66	\$4.18	\$3.91	\$3.32	\$3.25
New England	5.76	6.33	5.63	4.82	4.58
Connecticut	5.88	6.68	5.49	4.99	5.80
Maine	6.18	7.46	6.03	5.36	b
Massachusetts	5.76	6.25	5.69	4.76	4.46
New Hampshire	4.99	5.29	4.91	4.47	5.32
Rhode Island	5.63	6.26	5.90	4.55	b
Vermont	6.33	7.24	6.67	5.66	5.40
Middle Atlantic	4.55	5.02	4.58	3.91	4.27
New Jersey	5.29	5.82	5.38	4.53	2.94
New York	4.78	5.23	4.52	4.01	4.38
Pennsylvania	4.02	4.37	4.14	3.65	4.24
East North Central	3.66	3.88	3.66	3.40	3.48
Illinois	3.66	3.85	3.57	3.47	2.81
Indiana	3.26	3.59	3.37	3.03	3.18
Michigan	3.70	3.81	3.77	3.51	3.00
Ohio	3.63	3.87	3.61	3.34	3.61
Wisconsin	4.19	4.71	4.19	3.79	3.56
West North Central	3.30	3.73	3.33	2.97	2.11
Iowa	3.45	3.92	3.53	3.10	3.92
Kansas	2.83	2.97	2.56	2.86	1.86
Minnesota	3.59	4.12	3.84	3.11	1.95
Missouri	3.51	3.81	3.42	3.04	2.88
Nebraska	3.03	3.47	3.02	2.69	2.47
North Dakota	3.97	4.27	3.75	3.71	3.06
South Dakota	3.53	3.88	3.46	3.01	b
South Atlantic	3.94	4.79	4.09	3.49	3.55
Delaware	4.43	5.35	4.91	3.93	1.85
District of Columbia	5.29	5.49	5.11	b	b
Florida	3.21	5.29	3.69	2.97	2.97
Georgia	3.77	4.60	3.57	3.33	3.65
Maryland	4.54	5.03	4.58	3.97	3.09
North Carolina	4.51	5.04	4.69	4.28	4.56
South Carolina	3.89	4.51	3.91	3.74	3.64
Virginia	4.11	4.77	4.23	3.46	3.80
West Virginia	3.76	4.15	3.69	3.49	3.79
East South Central	3.37	3.87	3.55	3.14	2.94
Alabama	3.67	4.61	3.72	3.31	3.12
Kentucky	3.35	3.53	3.42	3.14	3.13
Mississippi	3.26	3.92	3.61	3.08	2.99
Tennessee	3.18	3.47	3.52	3.02	2.38
West South Central	3.05	3.67	3.32	2.96	2.65
Arkansas	2.10	2.83	2.54	1.84	2.83
Louisiana	2.93	3.75	3.43	2.80	2.37
Oklahoma	2.38	2.81	2.66	2.26	1.49
Texas	3.29	4.06	3.63	3.20	2.80
Mountain	3.40	3.90	3.66	3.03	3.20
Arizona	3.21	4.34	3.43	2.82	2.83
Colorado	3.77	4.13	3.80	3.33	3.59
Idaho	4.33	5.52	4.71	3.91	b
Montana	3.90	3.55	3.85	4.27	4.49
Nevada	3.67	4.67	4.51	3.29	3.61
New Mexico	3.05	3.68	3.36	2.75	2.99
Utah	2.75	3.14	2.64	2.41	5.05
Wyoming	2.95	3.40	3.11	2.78	1.82
Pacific	3.97	3.75	4.35	3.98	4.86
Alaska	1.47	1.91	1.64	1.24	b
California	3.89	3.59	4.22	3.97	4.79
Hawaii	15.46	17.19	15.14	14.95	b
Oregon	4.92	5.81	5.22	4.42	b
Washington	4.75	5.56	4.97	4.34	5.42

a. Includes Electric Generation.
b. No sales reported.

GAS FACTS

TABLE 97
AVERAGE RESIDENTIAL GAS PRICES,
BY STATE, 1955-1981

(\$/MMBtu)							
Division and State	1955	1960	1965	1970	1975	1980	1981
United States	\$0.90	\$1.00	\$1.01	\$1.06	\$1.69	\$3.61	\$4.18
New England	2.35	2.08	1.89	1.88	3.22	5.48	6.33
Connecticut	2.35	2.02	1.83	1.93	3.27	5.73	6.68
Maine	2.84	3.01	3.33	2.89	4.25	6.34	7.46
Massachusetts	2.30	2.11	1.91	1.87	3.20	5.41	6.25
New Hampshire	2.30	1.99	1.85	1.77	2.46	4.53	5.29
Rhode Island	2.54	1.92	1.80	1.76	3.16	5.46	6.26
Vermont	3.43	3.40	3.44	1.78	2.80	6.43	7.24
Middle Atlantic	1.24	1.32	1.31	1.34	2.26	4.44	5.02
New Jersey	1.87	1.79	1.69	1.62	2.59	4.89	5.82
New York	1.40	1.42	1.35	1.38	2.43	4.86	5.23
Pennsylvania	0.96	1.08	1.10	1.17	1.90	3.74	4.37
East North Central	0.86	0.93	0.95	0.99	1.56	3.37	3.88
Illinois	1.04	1.11	1.02	1.02	1.58	3.46	3.85
Indiana	1.04	0.98	0.96	1.05	1.45	3.12	3.59
Michigan	0.97	0.94	0.97	1.00	1.60	3.15	3.81
Ohio	0.64	0.76	0.83	0.89	1.51	3.45	3.87
Wisconsin	1.37	1.27	1.14	1.21	1.71	3.80	4.71
West North Central	0.75	0.83	0.85	0.92	1.37	3.08	3.73
Iowa	0.84	0.93	0.92	0.96	1.41	3.20	3.92
Kansas	0.54	0.57	0.60	0.69	0.97	2.38	2.97
Minnesota	0.90	1.11	1.05	1.08	1.59	3.24	4.12
Missouri	0.75	0.79	0.84	0.93	1.45	3.37	3.81
Nebraska	0.79	0.85	0.83	0.86	1.26	2.71	3.47
North Dakota	0.84	0.84	0.86	1.05	1.50	3.83	4.27
South Dakota	0.87	0.93	0.95	1.04	1.40	3.11	3.88
South Atlantic	1.03	1.22	1.23	1.23	2.02	4.13	4.79
Delaware	1.90	1.72	1.59	1.50	2.34	4.15	5.35
District of Columbia	1.39	1.53	1.47	1.44	2.40	4.56	5.49
Florida	2.54	2.76	2.51	1.81	2.79	4.53	5.29
Georgia	0.77	0.97	1.03	0.98	1.75	4.06	4.60
Maryland	1.37	1.48	1.39	1.43	2.31	4.40	5.03
North Carolina	1.90	1.41	1.38	1.29	2.02	4.00	5.04
South Carolina	2.00	1.43	1.39	1.34	2.08	4.12	4.81
Virginia	1.48	1.55	1.45	1.42	2.29	4.24	4.77
West Virginia	0.51	0.79	0.80	0.87	1.47	3.61	4.15
East South Central	0.76	0.90	0.91	0.92	1.43	3.37	3.87
Alabama	0.91	1.06	1.11	1.10	1.72	4.11	4.61
Kentucky	0.63	0.78	0.80	0.84	1.30	3.08	3.53
Mississippi	0.75	0.88	0.87	0.88	1.41	3.38	3.92
Tennessee	0.82	0.94	0.90	0.89	1.33	2.94	3.47
West South Central	0.64	0.70	0.77	0.85	1.35	2.99	3.67
Arkansas	0.58	0.66	0.75	0.78	1.12	2.31	2.83
Louisiana	0.61	0.64	0.72	0.75	1.32	3.06	3.75
Oklahoma	0.57	0.69	0.75	0.80	1.15	2.35	2.81
Texas	0.68	0.73	0.80	0.92	1.47	3.30	4.06
Mountain	0.64	0.72	0.74	0.83	1.34	3.23	3.90
Arizona	0.89	0.97	1.04	1.14	1.83	3.72	4.34
Colorado	0.64	0.57	0.67	0.71	1.16	3.22	4.13
Idaho	2.30	1.26	1.22	1.34	2.25	4.94	5.52
Montana	0.52	0.60	0.63	0.84	1.18	2.88	3.55
Nevada	1.66	1.47	1.30	1.31	1.81	3.97	4.67
New Mexico	0.68	0.74	0.71	0.84	1.37	3.21	3.68
Utah	0.56	0.63	0.64	0.70	1.12	2.68	3.14
Wyoming	0.52	0.59	0.61	0.65	0.99	2.69	3.40
Pacific	0.74	0.91	0.91	0.97	1.58	3.51	3.75
Alaska	*	*	1.48	1.42	1.48	1.73	1.91
California	0.72	0.88	0.87	0.93	1.52	3.38	3.59
Hawaii	*	3.65	3.74	3.56	7.97	14.58	17.19
Oregon	1.95	1.56	1.52	1.44	2.41	5.36	5.81
Washington	2.69	1.41	1.32	1.29	2.12	4.91	5.56

* Not available.

PRICES

TABLE 98
GAS UTILITY INDUSTRY AVERAGE PRICES,
BY STATE, 1955-1981^a

	(\$/MMBtu)						
Division and State	1955	1960	1965	1970	1975	1980	1981
United States	\$0.52	\$0.60	\$0.62	\$0.64	\$1.29	\$3.13	\$3.66
New England	2.11	1.77	1.60	1.60	2.87	4.96	5.76
Connecticut	1.98	1.66	1.51	1.60	2.93	4.99	5.88
Maine	2.53	2.78	2.96	2.23	3.04	5.15	6.18
Massachusetts	2.11	1.82	1.63	1.64	2.91	4.96	5.76
New Hampshire	2.19	1.71	1.71	1.54	2.21	4.23	4.99
Rhode Island	2.32	1.58	1.46	1.36	2.82	4.99	5.63
Vermont	3.45	3.49	2.93	2.22	2.06	5.66	6.33
Middle Atlantic	1.01	1.07	1.04	1.06	1.97	3.99	4.55
New Jersey	1.93	1.53	1.38	1.26	2.31	4.40	5.29
New York	1.32	1.29	1.20	1.21	2.14	4.43	4.78
Pennsylvania	0.72	0.81	0.81	0.87	1.68	3.45	4.02
East North Central	0.66	0.74	0.73	0.74	1.34	3.17	3.66
Illinois	0.61	0.77	0.74	0.73	1.35	3.26	3.66
Indiana	0.69	0.66	0.63	0.71	1.16	2.82	3.26
Michigan	0.86	0.81	0.80	0.78	1.43	3.06	3.70
Ohio	0.57	0.68	0.70	0.73	1.35	3.24	3.63
Wisconsin	1.15	1.02	0.82	0.80	1.31	3.42	4.19
West North Central	0.47	0.52	0.53	0.56	1.00	2.67	3.30
Iowa	0.54	0.61	0.62	0.62	1.04	2.81	3.45
Kansas	0.31	0.33	0.36	0.39	0.69	2.23	2.83
Minnesota	0.62	0.71	0.68	0.67	1.19	2.81	3.59
Missouri	0.51	0.56	0.56	0.54	1.18	3.04	3.51
Nebraska	0.48	0.52	0.51	0.51	0.90	2.34	3.03
North Dakota	0.68	0.67	0.68	0.82	1.26	3.57	3.97
South Dakota	0.52	0.58	0.65	0.71	1.05	2.81	3.53
South Atlantic	0.64	0.73	0.72	0.72	1.39	3.26	3.94
Delaware	1.69	1.14	0.96	0.93	1.73	3.46	4.43
District of Columbia	1.33	1.45	1.36	1.28	2.21	4.38	5.29
Florida	0.65	0.52	0.51	0.55	1.15	2.64	3.21
Georgia	0.40	0.55	0.61	0.57	1.12	3.18	3.77
Maryland	1.24	1.32	1.17	1.13	1.97	3.87	4.54
North Carolina	0.95	0.74	0.74	0.70	1.58	3.46	4.51
South Carolina	0.60	0.57	0.58	0.62	1.10	3.03	3.89
Virginia	0.98	1.05	0.98	0.95	1.78	3.58	4.11
West Virginia	0.43	0.60	0.59	0.64	1.24	3.26	3.76
East South Central	0.39	0.52	0.50	0.51	1.03	2.86	3.37
Alabama	0.38	0.52	0.51	0.52	1.04	3.13	3.67
Kentucky	0.53	0.63	0.64	0.67	1.11	2.90	3.35
Mississippi	0.29	0.41	0.39	0.38	0.95	2.70	3.26
Tennessee	0.43	0.54	0.50	0.53	1.00	2.69	3.18
West South Central	0.23	0.29	0.32	0.35	0.99	2.53	3.05
Arkansas	0.24	0.33	0.36	0.37	0.80	1.93	2.10
Louisiana	0.20	0.26	0.28	0.30	0.85	2.36	2.93
Oklahoma	0.31	0.35	0.40	0.46	0.79	2.04	2.38
Texas	0.23	0.28	0.31	0.35	1.10	2.72	3.29
Mountain	0.38	0.43	0.46	0.49	0.99	2.84	3.40
Arizona	0.39	0.47	0.52	0.57	1.19	2.81	3.21
Colorado	0.40	0.43	0.45	0.48	0.90	2.95	3.77
Idaho	b	0.53	0.57	0.67	1.48	4.03	4.33
Montana	0.36	0.43	0.47	0.54	1.03	3.03	3.90
Nevada	0.86	0.62	0.59	0.58	1.30	3.17	3.67
New Mexico	0.33	0.34	0.41	0.42	0.88	2.68	3.05
Utah	0.38	0.44	0.43	0.46	0.85	2.34	2.75
Wyoming	0.36	0.36	0.38	0.34	6.70	2.31	2.95
Pacific	0.50	0.59	0.57	0.58	1.31	3.65	3.97
Alaska	b	b	0.88	0.70	0.81	1.20	1.47
California	0.48	0.59	0.55	0.56	1.26	3.57	3.89
Hawaii	b	3.13	3.03	2.76	6.78	13.01	15.46
Oregon	1.94	0.78	0.71	0.74	1.80	4.64	4.92
Washington	2.46	0.59	0.60	0.65	1.55	4.33	4.75

a. Excludes sales for resale and revenues from sale for resale.

b. Not available.

GAS FACTS

TABLE 99
AVERAGE GAS PRICES OF WELLHEAD, CITY GATE, AND END-USER LEVEL
1955-1981

Year	Wellhead (\$/Mcf*)	City Gate (\$/MMBtu*)	Cost to the Ultimate Customer (\$/MMBtu*)
1955	0.104	0.271	0.518
1956	0.108	0.275	0.531
1957	0.113	0.284	0.536
1958	0.119	0.306	0.569
1959	0.129	0.316	0.576
1960	0.140	0.342	0.605
1961	0.151	0.357	0.618
1962	0.155	0.360	0.630
1963	0.158	0.351	0.625
1964	0.154	0.342	0.615
1965	0.156	0.339	0.618
1966	0.157	0.333	0.612
1967	0.160	0.330	0.612
1968	0.164	0.328	0.607
1969	0.167	0.334	0.616
1970	0.171	0.354	0.641
1971	0.182	0.389	0.681
1972	0.186	0.429	0.730
1973	0.216	0.463	0.788
1974	0.304	0.573	0.953
1975	0.445	0.798	1.285 ^R
1976	0.580	0.984	1.599
1977	0.790	1.308	1.974
1978	0.905	1.466	2.184
1979	1.178	1.812	2.522
1980	1.603 ^R	2.414 ^R	3.133
1981	1.995	2.880	3.663

*Mcf and MMBtu prices are roughly comparable. On a MMBtu basis, the wellhead price would be slightly less.

R--Revised.

Source: For wellhead price, Monthly Energy Review.

PRICES

TABLE 100
AVERAGE RESIDENTIAL CONSUMPTION AND COSTS
1955-1981*

Year	Gas			Electric Price (\$/MMBtu)	Number 2 Fuel Oil Price (\$/MMBtu)
	Consumption (MMBtu/ Customer)	Annual Bill (\$/Customer)	Price (\$/MMBtu)		
1955	85.2	\$ 76.38	\$0.90	\$ 7.77	\$1.04
1956	90.5	82.10	0.91	7.65	1.10
1957	92.5	84.66	0.92	7.50	1.15
1958	97.7	92.32	0.94	7.44	1.08
1959	100.7	97.21	0.97	7.36	1.10
1960	104.8	104.46	1.00	7.24	1.08
1961	106.7	108.51	1.02	7.18	1.12
1962	110.9	112.98	1.02	7.06	1.13
1963	112.1	113.96	1.02	6.95	1.15
1964	115.3	116.09	1.01	6.77	1.12
1965	116.5	117.34	1.01	6.59	1.15
1966	118.8	119.38	1.00	6.45	1.18
1967	121.5	122.03	1.00	6.36	1.21
1968	124.1	124.48	1.00	6.21	1.25
1969	128.4	130.08	1.01	6.13	1.28
1970	129.2	136.69	1.06	6.15	1.33
1971	129.9	145.28	1.12	6.42	1.41
1972	130.4	154.56	1.19	6.71	1.42
1973	124.5	155.73	1.25	6.98	1.64
1974	119.6	169.82	1.42	8.29	2.60
1975	121.9	206.24	1.69	9.40	2.81
1976	121.3	240.48	1.98	10.11	3.01
1977	118.7	276.87	2.33	11.08	3.42
1978	121.0	307.40	2.53	11.81	3.66
1979	118.6	346.39	2.92	12.69	5.24
1980 ^R	110.9	400.68	3.61	14.45	7.21
1981	104.4	436.08	4.18	17.26	8.95

*Prices given are for total usage.

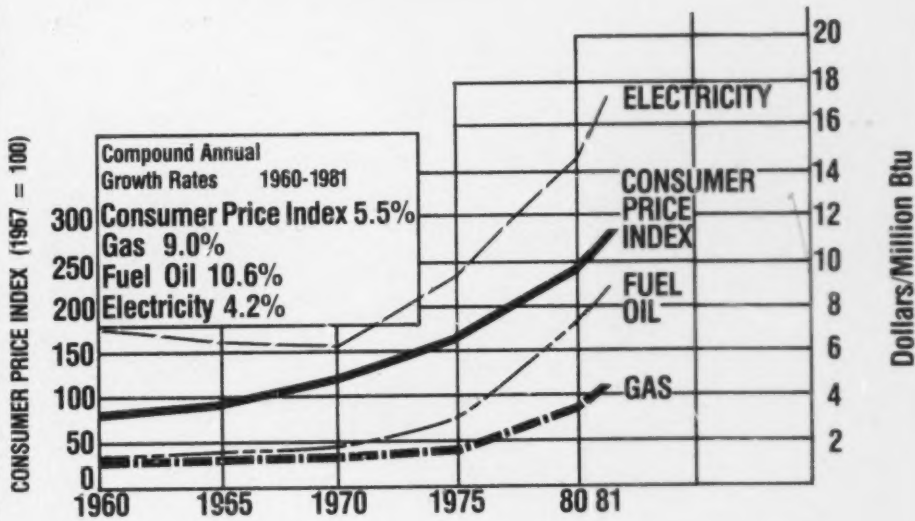
R—Revised.

Sources: For electric price, *Edison Electric Institute Statistical Yearbook*. For oil price, Bureau of Labor Statistics, *Retail Prices and Indexes of Fuels and Utilities*.

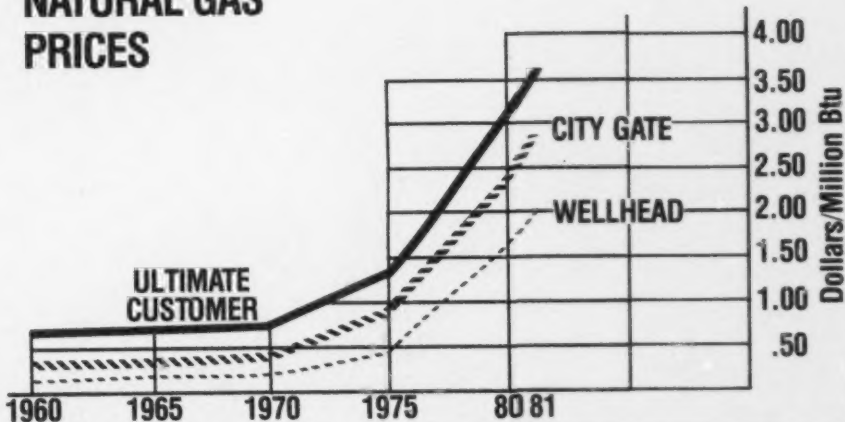
GAS FACTS

CHART 17

RESIDENTIAL PRICES OF FUELS & ELECTRICITY



SELECTED NATURAL GAS PRICES



REFERENCE: TABLES 93, 99 & 100

PRICES

TABLE 101
AVERAGE ANNUAL RESIDENTIAL GAS BILLS,
BY STATE, 1955-1981

(\$/Customer)							
Division and State	1955	1960	1965	1970	1975	1980 ^R	1981
United States	\$ 76	\$104	\$117	\$137	\$206	\$401	\$436
New England	68	103	128	162	274	493	581
Connecticut	69	109	125	169	285	504	605
Maine	70	88	107	110	165	275	333
Massachusetts	69	106	132	163	276	494	576
New Hampshire	68	102	137	165	234	458	493
Rhode Island	59	91	117	146	266	474	572
Vermont	52	68	80	116	261	660	727
Middle Atlantic	73	103	119	144	231	465	526
New Jersey	68	102	124	150	229	439	524
New York	64	90	105	126	217	455	494
Pennsylvania	94	127	142	172	257	503	581
East North Central	88	128	151	174	257	535	578
Illinois	76	122	143	169	266	562	597
Indiana	75	101	128	168	220	448	491
Michigan	98	138	168	189	268	545	602
Ohio	102	140	157	177	259	547	584
Wisconsin	78	117	148	175	238	497	548
West North Central	97	126	135	154	209	405	434
Iowa	99	138	148	161	215	408	448
Kansas	80	90	93	114	145	301	332
Minnesota	113	161	176	190	255	450	514
Missouri	93	118	127	155	215	449	444
Nebraska	110	136	134	145	195	349	392
North Dakota	80	100	142	179	245	489	490
South Dakota	109	135	150	159	203	365	408
South Atlantic	81	113	118	136	194	387	444
Delaware	71	110	136	164	219	388	485
District of Columbia	95	122	129	147	230	472	568
Florida	59	54	68	87	107	203	201
Georgia	75	107	106	122	181	394	442
Maryland	86	125	133	158	225	425	492
North Carolina	78	110	124	144	188	388	486
South Carolina	72	98	105	122	151	308	360
Virginia	93	129	137	157	230	423	486
West Virginia	79	129	128	140	219	474	528
East South Central	80	106	101	116	153	344	374
Alabama	79	103	101	118	157	356	389
Kentucky	86	120	116	132	177	401	431
Mississippi	65	86	77	92	122	291	316
Tennessee	86	111	103	113	140	299	328
West South Central	53	68	71	89	130	253	281
Arkansas	61	81	85	103	128	221	247
Louisiana	46	56	59	72	108	237	277
Oklahoma	62	79	87	102	138	243	258
Texas	52	67	69	89	135	265	292
Mountain	85	99	104	117	175	334	388
Arizona	61	73	80	89	141	219	226
Colorado	95	100	103	111	171	385	399
Idaho	77	127	143	154	249	393	395
Montana	96	106	126	148	203	363	395
Nevada	103	130	134	148	204	347	381
New Mexico	77	99	96	109	173	318	319
Utah	98	127	128	148	201	373	394
Wyoming	99	102	106	117	160	362	385
Pacific	67	84	94	103	174	286	277
Alaska	*	*	341	282	328	375	390
California	66	82	92	97	166	272	262
Hawaii	*	92	102	120	232	364	397
Oregon	98	123	138	163	258	428	419
Washington	90	132	152	165	259	469	466

*Not available.
R—Revised.

GAS FACTS

TABLE 102
AVERAGE RESIDENTIAL GAS PRICES
BY CENSUS DIVISION
HEATING SEASON—NOVEMBER THRU MARCH
(\$/MMBtu)

	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82*
Total U.S.	2.10	2.35	2.62	3.28	3.84	4.52
NE	3.80	3.91	4.07	4.98	5.71	7.04
MA	2.59	3.02	3.35	3.94	4.67	5.42
ENC	2.02	2.25	2.44	3.14	3.52	4.12
WNC	1.72	1.97	2.42	2.75	3.46	4.35
SA	2.38	2.74	2.98	3.92	4.27	5.17
ESC	1.72	2.04	2.41	3.09	3.57	4.28
WSC	1.97	2.15	2.35	2.91	3.23	3.97
M	1.76	2.02	2.34	2.98	3.79	4.48
P	1.82	1.89	2.20	2.98	3.59	3.91

*Data used for 1982 was based on the "Quarterly Report of Gas Industry Operations."

TABLE 103
AVERAGE GAS CONSUMPTION BY HOUSEHEATING CUSTOMERS
BY CENSUS DIVISION
HEATING SEASON—NOVEMBER THRU MARCH
(MMBtu/Customer)

	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82*
Total U.S.	97.5	94.7	93.8	83.3	81.4	81.8
NE	100.3	96.9	95.2	93.9	92.5	88.8
MA	125.9	120.9	111.7	107.4	113.6	111.3
ENC	130.8	125.8	128.0	112.9	115.1	116.1
WNC	119.2	118.2	113.5	105.3	87.5	93.4
SA	90.4	88.8	76.2	71.0	74.1	69.9
ESC	93.8	90.5	86.4	75.1	71.5	68.7
WSC	67.8	72.0	66.5	53.7	55.5	54.4
M	78.3	74.5	84.9	76.0	59.2	59.4
P	56.7	51.1	64.3	50.7	45.6	48.3

*Data used for 1982 was based on the "Quarterly Report of Gas Industry Operations."

TABLE 104
AVERAGE GAS BILL FOR HOUSEHEATING CUSTOMERS
BY CENSUS DIVISION
HEATING SEASON—NOVEMBER THRU MARCH
(\$/Customer)

	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82*
Total U.S.	\$205	\$223	\$246	\$273	\$313	\$370
NE	381	379	387	468	528	625
MA	326	365	374	423	531	603
ENC	264	283	312	355	405	478
WNC	197	233	275	290	303	406
SA	215	243	227	278	316	361
ESC	161	185	208	232	255	294
WSC	134	155	156	156	179	216
M	138	150	199	226	224	266
P	103	97	141	151	164	189

*Data used for 1982 was based on the "Quarterly Report of Gas Industry Operations."

PRICES

TABLE 105
GAS UTILITY INDUSTRY AVERAGE PRICES,
FOR GAS USED FOR ELECTRIC GENERATION,
BY STATE, 1975-1981

(\$MMBtu)							
Division and State	1975	1976 ^R	1977 ^R	1978 ^R	1979 ^R	1980 ^R	1981
United States	\$0.86	\$1.22	\$1.60	\$1.72	\$2.12	\$2.65	\$3.24
New England	1.13	1.52	1.87	2.41	2.65	3.49	3.64
Connecticut	1.08	1.11	b	b	b	b	b
Maine	b	b	b	b	b	b	b
Massachusetts	1.21	1.58	1.90	1.88	2.69	3.51	3.74
New Hampshire	0.04	1.44	1.50	b	b	b	b
Rhode Island	1.58	b	b	2.04	2.49	3.42	3.37
Vermont	b	b	b	b	b	b	b
Middle Atlantic	1.16	1.22	1.54	1.64	1.69	3.18	3.81
New Jersey	1.07	1.17	1.68	1.83	2.84	3.40	3.98
New York	0.99	1.40	1.54	1.55	2.36	2.78	4.44
Pennsylvania	1.26	1.32	1.59	1.63	2.58	2.77	3.37
East North Central	1.24	1.65	2.00	2.24	2.33	2.97	3.64
Illinois	1.16	1.40	1.74	2.70	2.61	3.20	4.08
Indiana	0.97	1.21	1.30	1.65	2.26	2.53	2.92
Michigan	1.50	1.88	2.07	1.99	2.10	2.84	3.39
Ohio	1.20	1.02	1.31	1.31	2.24	2.79	3.24
Wisconsin	0.80	1.24	1.91	2.20	2.29	2.89	3.44
West North Central	0.59	0.79	1.07	1.16	1.43	1.90	2.23
Iowa	0.70	0.87	1.23	1.66	2.00	2.40	3.11
Kansas	0.53	0.78	1.05	1.16	1.45	1.83	2.12
Minnesota	0.64	0.84	1.18	1.69	1.80	2.01	2.68
Missouri	0.57	0.76	1.09	1.12	1.43	2.34	2.71
Nebraska	0.63	0.82	1.07	1.13	1.17	1.84	2.36
North Dakota	b	b	b	b	b	c	c
South Dakota	0.63	0.87	1.11	1.30	1.45	b	b
South Atlantic	0.64	0.76	0.97	1.27	2.16	2.24	2.84
Delaware	b	b	b	b	b	b	b
District of Columbia	b	b	b	b	b	b	b
Florida	0.58	0.68	0.93	1.15	2.15	2.21	2.81
Georgia	0.65	0.81	1.15	1.60	2.17	2.57	3.29
Maryland	b	b	b	b	b	b	b
North Carolina	b	b	b	b	2.82	3.47	4.33
South Carolina	b	b	b	b	2.92	3.48	4.05
Virginia	0.64	0.92	b	b	b	b	b
West Virginia	b	1.27	1.62	b	b	4.05	5.04
East South Central	0.72	0.98	1.29	1.53	1.91	2.29	2.75
Alabama	0.82	1.12	1.47	1.63	b	c	b
Kentucky	b	b	b	b	b	b	b
Mississippi	0.72	0.98	1.29	1.52	1.91	2.29	2.75
Tennessee	b	b	b	b	b	2.30	2.75
West South Central	0.86	1.27	1.61	1.79	2.14	2.37	2.96
Arkansas	0.66	0.80	1.10	1.20	1.74	1.74	2.12
Louisiana	0.70	1.06	1.41	1.59	2.03	2.39	3.03
Oklahoma	0.66	1.02	1.40	1.47	1.61	1.82	1.94
Texas	0.97	1.28	1.56	1.75	2.13	2.48	3.12
Mountain	0.72	0.95	1.35	1.45	2.06	2.44	2.92
Arizona	0.81	0.82	1.10	1.38	1.88	2.26	2.89
Colorado	0.60	0.79	1.07	1.31	2.00	2.64	3.29
Idaho	b	b	b	b	b	b	b
Montana	b	b	b	b	b	1.66	c
Nevada	1.07	1.42	1.73	1.62	2.36	2.61	3.08
New Mexico	0.63	0.87	1.40	1.55	1.97	2.30	2.66
Utah	0.58	0.92	1.04	1.26	1.53	b	b
Wyoming	b	b	b	b	b	b	b
Pacific	1.03	1.53	2.06	2.14	2.40	3.45	3.91
Alaska	0.51	0.66	0.76	0.88	0.85	0.88	1.19
California	1.05	1.56	2.10	2.18	2.44	3.53	3.96
Hawaii	b	b	b	b	b	b	b
Oregon	b	b	b	b	b	5.56	5.45
Washington	b	b	b	2.20	3.05	b	5.22

a. Not available.

b. No sales reported.

c. Less than .05 trillion Btu in sales.

GAS FACTS

TABLE 106
GAS UTILITY INDUSTRY RESALE^a PRICES
BY STATE, 1970-1981

(\$/MMBtu)						
Division and State	1970	1975	1978	1979	1980	1981
United States	\$0.35	\$0.80	\$1.47	\$1.81	\$2.41	\$2.88
New England	0.62	1.41	1.92	2.25	2.84	3.41
Connecticut	0.63	1.51	2.03	2.31	2.91	3.48
Maine	b	b	b	b	b	b
Massachusetts	0.61	1.35	1.87	2.23	2.81	3.40
New Hampshire	0.62	0.99	1.78	2.14	2.59	3.26
Rhode Island	0.59	1.59	1.94	2.26	2.94	3.37
Vermont	b	0.67	b	b	b	b
Middle Atlantic	0.43	0.93	1.51	1.86	2.49	2.96
New Jersey	0.44	0.99	1.47	1.78	2.45	2.95
New York	0.46	0.93	1.55	1.98	2.59	3.19
Pennsylvania	0.41	0.90	1.50	1.82	2.45	2.82
East North Central	0.37	0.79	1.44	1.80	2.41	2.86
Illinois	0.31	0.68	1.22	1.64	2.12	2.57
Indiana	0.37	0.72	1.27	1.72	2.14	2.65
Michigan	0.40	0.87	1.67	2.03	2.93	3.35
Ohio	0.39	0.84	1.48	1.78	2.39	2.78
Wisconsin	0.41	0.95	1.82	2.18	3.07	3.69
West North Central	0.34	0.70	1.36	1.69	2.11	2.66
Iowa	0.39	0.78	1.56	1.93	2.48	2.80
Kansas	0.26	0.53	1.04	1.29	1.78	2.42
Minnesota	0.37	0.75	1.47	1.91	2.32	2.96
Missouri	0.32	0.69	1.31	1.58	1.86	2.47
Nebraska	0.34	0.69	1.34	1.62	2.02	2.70
North Dakota	0.42	1.40	2.33	2.78	4.57	5.05
South Dakota	0.37	0.72	1.44	1.74	2.11	2.83
South Atlantic	0.39	0.80	1.51	1.85	2.43	3.01
Delaware	0.62	0.98	1.61	1.83	2.41	3.01
District of Columbia	b	b	b	b	b	b
Florida	0.38	0.66	1.25	1.62	2.31	2.60
Georgia	0.37	0.69	1.37	1.88	2.30	2.97
Maryland	0.45	1.05	1.74	1.89	2.61	3.00
North Carolina	0.24	0.81	1.54	1.89	2.66	3.47
South Carolina	0.45	0.68	1.35	1.81	2.28	2.99
Virginia	0.42	0.98	1.79	1.91	2.60	3.19
West Virginia	0.36	0.76	1.47	1.83	2.35	2.85
East South Central	0.32	0.64	1.29	1.58	2.14	2.71
Alabama	0.33	0.64	1.30	1.82	2.25	2.90
Kentucky	0.37	0.71	1.30	1.66	2.22	2.70
Mississippi	0.27	0.62	1.29	1.34	2.19	2.77
Tennessee	0.29	0.61	1.27	1.59	2.04	2.60
West South Central	0.21	0.63	1.37	1.66	2.15	2.75
Arkansas	0.30	0.58	1.05	1.29	2.04	2.42
Louisiana	0.22	0.62	1.30	1.70	2.09	2.63
Oklahoma	0.20	0.62	1.32	1.52	2.04	2.73
Texas	0.20	0.64	1.49	1.67	2.21	2.83
Mountain	0.32	0.71	1.38	1.74	2.37	2.63
Arizona	0.33	0.70	1.32	1.74	2.26	2.42
Colorado	0.26	0.58	1.37	1.46	2.51	3.28
Idaho	0.34	1.14	2.02	2.33	3.43	3.65
Montana	0.46	0.95	1.74	1.99	3.41	4.27
Nevada	0.51	1.28	2.17	2.81	3.64	4.01
New Mexico	0.20	0.48	1.27	1.59	1.91	2.31
Utah	0.20	0.42	0.81	1.20	1.51	3.43
Wyoming	0.23	0.97	1.73	2.17	3.00	3.57
Pacific	0.34	1.10	1.95	2.39	3.39	3.73
Alaska	b	b	b	b	0.83	b
California	0.37	0.85	1.54	2.08	2.75	3.05
Hawaii	b	b	b	b	b	b
Oregon	0.30	1.27	2.24	2.65	4.29	4.69
Washington	0.32	1.11	1.98	2.34	3.40	3.67

a. Resale prices approximate city-gate prices.
b. No sales reported.

PRICES

TABLE 107
INDEXES OF WHOLESALE PRICES OF GAS, YEARLY AVERAGES, 1955-1981
AND MONTHLY AVERAGES, 1981

(1967=100)

Year and Month	All Gas	Utility Gas	Liquefied Petroleum Gas
1955	61.6	61.1	64.1
1956	65.9	63.5	80.1
1957	72.8	71.7	78.3
1958	76.1	75.2	80.4
1959	82.9	83.2	82.6
1960	87.2	90.5	73.2
1961	88.8	94.9	58.7
1962	89.2	96.8	52.2
1963	91.8	97.5	69.6
1964	90.7	97.7	56.5
1965	92.8	97.8	69.2
1966	96.7	98.6	89.1
1967	100.0	100.0	100.0
1968	91.3	101.9	60.2
1969	93.1	103.0	63.7
1970	103.0	105.6	96.3
1971	108.0	112.2	95.7
1972	114.1	121.0	93.7
1973	126.7	131.3	113.2
1974	162.2	154.6	183.5
1975	216.7	215.3	221.0
1976	286.8	291.8	287.7
1977	387.8	412.3	367.9
1978	428.6	488.2	343.5
1979	544.4	637.6	406.9
1980	760.4	846.6	642.2
1981	939.8	1099.1	703.6
January	857.1	966.7	702.5
February	881.6	1004.9	704.6
March	889.9	1016.3	708.0
April	907.8	1038.3	719.3
May	933.9	1080.9	718.4
June	954.6	1119.1	710.3
July	969.4	1151.7	695.2
August	949.3	1121.6	691.3
September	976.6	1162.9	695.8
October	965.6	1143.2	699.3
November	983.0	1168.5	703.9
December	1007.7	1210.4	700.1

*1957 yearly average not available.

Source: Bureau of Labor Statistics. *Wholesale Prices and Price Index*, 1981. Represents unofficial estimates of U.S. Bureau of Labor Statistics, based on Bureau of Mines wellhead prices of natural gas and average prices of L.P.G. between 1947 and 1956; and wellhead prices for natural gas by 20 major pipeline companies, and L.P.G. price quotations from 2 major producers subsequent to 1956.

SECTION XI

APPLIANCE AND HOUSING DATA

	1981	% Change 81/80
Manufacturer Shipments		
(Thousands of Units)		
Central Heating	1,579	- 9.2
Ranges	1,496	- 2.8
Water Heaters	2,786	- 1.1
Clothes Dryers	639	- 6.3
New One-Family Houses Completed		
(Thousands of Units)		
Gas Heat	339	-13.7

GAS FACTS

TABLE 108
MANUFACTURER SHIPMENTS OF GAS RANGES, WATER HEATERS AND
CLOTHES DRYERS, 1955-1981^a

(Thousands of units)

Year	Domestic Range Sales			Automatic Domestic Water Heater Sales			Automatic Gas Dryers
	Free-Standing ^b	Built-in ^b	Total	Natural Gas	L.P. Gas	Total	
1955	2,235	100	2,335	2,400	348	2,748	368 ^c
1960	1,475	339	1,814	2,383	338	2,721	431
1961	1,484	346	1,830	2,448	284	2,732	412
1962	1,621	360	1,981	2,588	288	2,876	475
1963	1,714	358	2,072	2,346	251	2,597	535
1964	1,826	345	2,171	2,482	242	2,724	632
1965	1,976	291	2,267	2,497	240	2,737	710
1966	1,931	232	2,163	2,341	296	2,637	751
1967	1,954	169	2,123	2,246	309	2,555	829
1968	2,102	184	2,286	2,411	345	2,756	876
1969	2,282	189	2,471	2,386	356	2,742	905
1970	2,195	167	2,362	2,404	381	2,785	852
1971	2,363	186	2,549	2,645	443	3,088	847
1972	2,467	194	2,661	2,676	487	3,163	936
1973	2,312	169	2,481	2,568	512	3,080	926
1974	1,825	125	1,950	2,210	359	2,569	739
1975	1,493	125	1,618	2,388	257	2,645	672
1976	1,693	131	1,824	2,695	417	3,112	707
1977	1,615	131	1,746	d	d	3,158 ^e	736
1978	1,665	129	1,794	2,578	343	2,921	757
1979	1,542	129	1,670	2,548	339	2,887	757
1980 ^R	1,437	102	1,539	2,498	320	2,818	682
1981	1,401	95	1,496	2,462	324	2,786	639

a. Shows shipments by manufacturers, expanded from returns of reporting companies to represent industry-wide coverage. Shipments of appliances for L.P. gas users include those for use by customers obtaining such gas through utility mains, as well as bottled gas users.

b. Data for "Set-In" type ranges now included with "Free-Standing." Prior years have been added to provide comparability.

c. Includes combination washer-dryers.

d. Not available.

e. Estimated.

R—Revised.

Source: Gas Appliance Manufacturers Association. *Statistical Highlights*, January 1982.

APPLIANCE AND HOUSING DATA

TABLE 109
MANUFACTURER SHIPMENTS OF GAS HEATING EQUIPMENT, 1955-1981^a

(Thousands of units)

Year	Central Heating Equipment				Floor and Wall Furnaces Total	Direct Heating Equipment Total
	Warm Air Furnaces	Conversion Burners	Boilers	Total		
1955	836	209	90	1,135	555	1,470
1960	900	132	153	1,185	453	1,211
1961	929	116	168	1,213	467	1,067
1962	1,009	104	175	1,288	515	1,161
1963	1,102	108	184	1,394	525	1,324
1964	1,186	101	199	1,486	555	1,190
1965	1,238	93	200	1,531	501	994
1966	1,213	93	186	1,492	515	1,034
1967	1,146	84	174	1,404	471	920
1968	1,428	79	187	1,694	555	974
1969	1,546	77	176	1,799	576	1,043
1970	1,471	66	164	1,701	545	781
1971	1,795	53	157	2,005	612	783
1972	2,066	40	156	2,262	762	708
1973	1,719	43	147	1,909	652	678
1974	1,476	89	123	1,688	409	488
1975	1,186	39	88	1,313	435	332
1976	1,554	26	113	1,693	523	306
1977	1,508	b	113	1,621	499	193
1978	1,636	b	126	1,762	532	175
1979	1,863	b	221	2,084	376	193
1980	1,446 ^R	b	293	1,739	199	125 ^R
1981	1,417	b	162	1,579	127	80

a. Shows shipments by manufacturers: expanded from returns of reporting companies to represent industry-wide coverage. Includes shipments for use by utility customers and bottled gas users.

b. Not available.

R—Revised.

Source: Gas Appliance Manufacturers Association. *Statistical Highlights*, January 1982.

TABLE 110
MANUFACTURER SHIPMENTS OF RESIDENTIAL GAS APPLIANCES, BY MONTH, 1981

(Thousands of units)

Month	Ranges		Automatic Water Heaters	Dryers ^b	Central Heating	
	Free- Standing ^a	Built-in			Warm Air Furnaces	Boilers
January	106	8	260	69	136	13
February	110	8	242	52	123	10
March	134	10	286	54	128	13
April	116	9	287	53	111	10
May	115	9	226	47	105	8
June	125	9	235	50	108	10
July	103	7	204	50	115	9
August	114	7	204	55	120	14
September	130	7	202	65	125	20
October	122	6	225	57	140	27
November	112	7	203	48	111	17
December	115	8	211	39	95	11
Total ^c	1,401	95	2,785	639	1,417	162

a. Includes "set-in" type ranges.

b. Excludes combination washer-dryer units.

c. Totals may not add due to rounding.

Source: Gas Appliance Manufacturers Association. *Statistical Highlights*, January 1982.

GAS FACTS

TABLE 111
MANUFACTURER SHIPMENTS OF GAS RANGES, AND VALUE,
BY TYPE OF RANGE, 1981

Type of Range	Units (Thousands)	Percentages of Total
Apartment Ranges	212.8	14.2
Standard Ranges ^a	1,095.1	73.3
Combination and Heater Ranges ^b	3.1	.2
Total Free Standing Ranges ^c	1,311.0	87.7
High Oven Ranges	90.3	6.0
Total Free Standing and High Oven Ranges	1,401.3	93.7
Built-In Units	94.4	6.3
Total ^a	1,495.7	100.0

a. The above figures exclude gas ranges used in travel trailers and recreational vehicles.

b. Includes bungalow ranges.

c. Includes "set-in" type ranges.

Source: Gas Appliance Manufacturers Association. *Residential Gas Ranges*, December 1981.

TABLE 112
MANUFACTURER SHIPMENTS OF GAS WATER HEATERS, BY SIZE, 1981

Size in Gallons	Total Shipments (Thousands of Units)	Percentage of Total Shipments
Less than 30	76.1	2.7
30-39.9	1,077.4	38.7
40-47.4	1,249.3	44.9
47.5 and over	382.4	13.7
Total	2,785.2	100.0

Source: Gas Appliance Manufacturers Association. *Residential Gas Automatic Storage Water Heaters*, December 1981.

TABLE 113
MANUFACTURER SHIPMENTS OF GAS FURNACES, BY TYPE AND SIZE, 1981

Type	Percentage ^a of Total	Size by Btu Output	Percentage ^b of Total
Gravity	0.1	Less than 50,000	14.1
		50,000-74,999	29.5
Forced Warm Air	99.9	75,000-89,999	28.8
Up-flow	70.7	90,000-134,999	24.8
Counter Flow	11.7	135,000-179,999	2.7
Horizontal	17.5	180,000 and over	0.1
Total	100.0	Total	100.0

a. Based on shipments of 1,416,700 gas fired furnaces.

b. Excludes gravity furnaces. Based on shipments of 1,415,600 gas fired forced warm air furnaces.

Source: Gas Appliance Manufacturers Association. *Gas, Oil and Electric Warm Air Furnaces*, December 1981.

TABLE 114
MANUFACTURER SHIPMENTS OF GAS-FIRED BOILERS, BY TYPE AND SIZE, 1981

(Percentages)			
Btu Output	Steam	Hot Water	Total
Less than 50,000	a	0.2	0.2
50,000- 74,999	1.7	17.8	14.1
75,000- 99,999	18.7	26.1	24.4
100,000-124,999	25.4	25.9	25.8
125,000-149,999	15.2	9.4	10.7
150,000-199,999	12.7	8.1	9.2
200,000-249,999	9.0	5.8	6.5
250,000-449,999	9.1	3.5	4.8
450,000-949,999	4.6	1.8	2.4
950,000 and over	3.6	1.4	1.9
Total*	100.0	100.0	100.0

a. Combined with next size to avoid possible disclosure.

*Based on shipments of 37,700 steam boilers and 123,900 hot water boilers, for a total of 161,600 units.

Source: Gas Appliance Manufacturers Association. *Gas, Oil and Electric Boilers*, December 1981.

APPLIANCE AND HOUSING DATA

TABLE 115
GAS CONSUMPTION BY RESIDENTIAL APPLIANCES, 1975
(Average Consumption Excluding Extremes)

	(Therms per year)										
	Residential Customers	House Range	Apt. Range	Water Heater	Clothes Dryer (gas pilot)	Clothes Dryer (elec. pilot)	Incinerator	Gas Light	Air Conditioner Consumption Per Ton	Gas Grill	Gas Heat All Types
United States	28,778,360	105	83	325	73	48	151	184	273	27	1,069
New England	1,068,258	101	70	284	86	74	158	178	237	21	1,372
Middle Atlantic	6,263,484	99	77	336	67	50	147	188	227	22	1,279
East North Central	7,553,917	100	82	341	74	44	155	183	196	27	1,350
West North Central	2,834,033	90	70	323	82	52	154	171	269	23	1,218
South Atlantic	2,790,315	96	84	301	65	39	138	181	333	27	902
East South Central	912,697	118	104	291	72	51	*	165	258	42	973
West South Central	3,166,276	118	95	299	69	38	*	191	498	40	731
Mountain	999,675	103	84	259	76	45	138	185	*	28	1,162
Pacific	3,189,705	108	92	357	82	56	*	188	257	*	755

•Not available.

Note: A total of 152 companies with a total of 28,778,360 residential customers provided data for this summary. This represents 70 percent of the 40,950,300 residential gas customers in the United States (1975).

GAS FACTS

TABLE 116
NUMBER OF OCCUPIED HOUSING UNITS,
BY TYPE OF HEATING FUEL
AND BY CENSUS REGION, 1970-1980

(Thousands of Occupied Units^a)

Year and Region	Total	Gas	Electricity	Oil ^b	Other ^c /None
1970					
United States	63,445	35,014	4,876	16,474	7,083
Northeast	15,483	5,741	474	8,414	850
North Central	17,535	11,708	546	3,431	1,852
South	19,257	9,626	2,544	3,645	3,443
West	11,169	7,939	1,312	984	936
1973					
United States	69,337	38,461	7,213	17,235	6,429
Northeast	16,152	5,850	596	9,249	457
North Central	18,742	12,810	901	3,304	1,727
South	21,806	10,783	3,897	3,761	3,366
West	12,638	9,018	1,818	921	880
1974					
United States	70,831	39,481	8,412	16,827	6,111
Northeast	16,282	5,952	709	9,215	405
North Central	18,993	13,240	1,041	3,148	1,564
South	22,489	11,069	4,584	3,567	3,268
West	13,067	9,220	2,079	897	871
1975					
United States	72,523	40,933	9,173	16,299	6,117
Northeast	16,508	6,446	802	8,875	386
North Central	19,393	13,666	1,154	3,027	1,546
South	23,105	11,352	4,965	3,508	3,280
West	13,518	9,469	2,253	889	907
1976					
United States	74,005	41,219	10,151	16,451	6,184
Northeast	16,544	6,140	846	9,161	397
North Central	19,722	13,803	1,366	3,004	1,549
South	23,742	11,449	5,498	3,488	3,307
West	13,998	9,826	2,441	798	933
1977					
United States	75,280	41,543	11,146	16,063	6,531
Northeast	16,637	6,151	958	9,103	425
North Central	19,855	13,893	1,506	2,843	1,613
South	24,379	11,577	6,033	3,335	3,434
West	14,407	9,922	2,649	778	1,058
1978					
United States	77,167	42,522	12,258	16,071	6,316
Northeast	16,952	6,301	999	9,252	400
North Central	20,171	14,140	1,685	2,817	1,529
South	25,093	11,956	6,561	3,263	3,313
West	14,951	10,125	3,013	739	1,074
1979					
United States	78,572	43,323	13,244	15,708	6,297
Northeast	17,122	6,558	1,109	9,056	399
North Central	20,565	14,428	1,864	2,724	1,549
South	25,584	12,054	7,074	3,191	3,265
West	15,301	10,283	3,197	737	1,084
1980					
United States	80,072	44,398	14,208	14,568	6,598
Northeast	17,264	6,928	1,169	8,685	482
North Central	20,842	14,688	2,036	2,503	1,615
South	26,286	12,290	7,615	3,009	3,372
West	15,680	10,492	3,388	671	1,129

a. Units include both single-family and multifamily.

b. Oil includes kerosene.

c. Other includes LP gas, coal, wood and solar heat.

Note: Totals may not add due to rounding.

Sources: For 1970. U.S. Bureau of the Census, Census of Housing; 1970. *Detailed Housing Characteristics*.

For 1973-1980 U.S. Bureau of the Census, Current Housing Reports—Series H-150. *Annual Housing Survey*. Part A: General Housing Characteristics.

APPLIANCE AND HOUSING DATA

TABLE 117
NEW ONE-FAMILY HOUSES COMPLETED,
BY TYPE OF HEATING FUEL AND BY
CENSUS REGION, 1972-1981^a

(Thousands of Units)

Year and Region	Total	Gas	Electricity	Oil	Other/None
1973					
United States	1,197	560	497	125	16
Northeast	156	53	44	55	5
North Central	262	160	66	34	b
South	526	172	312	35	7
West	253	175	74	b	b
1974					
United States	940	385	458	85	11
Northeast	132	38	51	42	b
North Central	220	112	79	26	3
South	397	109	266	16	5
West	191	126	63	b	b
1975					
United States	875	347	429	82	18
Northeast	114	27	37	47	3
North Central	218	107	83	20	8
South	362	105	239	14	4
West	182	107	71	b	3
1976					
United States	1,034	407	499	110	19
Northeast	121	18	38	62	4
North Central	271	130	109	26	6
South	410	120	260	22	8
West	232	139	91	b	1 b
1977					
United States	1,258	476	635	120	28
Northeast	135	22	42	67	5
North Central	300	138	121	30	11
South	512	139	341	23	8
West	311	176	130	b	4
1978					
United States	1,369	511	710	109	40
Northeast	141	23	48	60	11
North Central	300	149	107	32	11
South	571	153	392	16	9
West	357	186	162	b	9
1979					
United States	1,301	512	662	86	41
Northeast	135	32	47	48	7
North Central	294	162	96	22	14
South	535	147	365	14	9
West	337	170	154	b	12
1980					
United States	957	393	483	29	52
Northeast	100	35	36	18	11
North Central	170	101	47	6	16
South	455	136	303	5	11
West	232	121	97	b	14
1981					
United States	819	339	407	16	57
Northeast	87	30	34	11	12
North Central	140	87	37	b	14
South	408	128	262	b	16
West	183	94	74	b	15

a. Includes only privately-owned housing units.

b. Withheld because estimate did not meet Bureau of the Census publication standards.

Note: Totals may not add due to rounding.

Source: U.S. Bureau of the Census, Construction Reports—Series C25, *Characteristics of New-Housing*, 1981.

GAS FACTS

TABLE 118
UNITS IN NEW MULTIFAMILY BUILDINGS
COMPLETED, BY TYPE OF HEATING
FUEL AND BY CENSUS REGION, 1973-1981^b

(Thousands of Units^a)

Year and Region	Total	Gas	Electricity	Oil	Other/None
1973					
United States	903	c	c	c	c
Northeast	138	c	c	c	c
North Central	180	c	c	c	c
South	380	c	c	c	c
West	205	c	c	c	c
1974					
United States	788	279	472	30	7
Northeast	99	28	44	22	6
North Central	157	93	62	1	1
South	359	76	275	7	c
West	173	81	91	c	c
1975					
United States	442	145	260	30	7
Northeast	72	17	25	24	6
North Central	96	48	47	c	1
South	170	31	133	5	c
West	105	48	56	c	c
1976					
United States	343	113	202	24	3
Northeast	50	11	21	16	2
North Central	84	39	44	1	c
South	103	19	78	6	1
West	106	45	60	c	c
1977					
United States	399	115	261	18	4
Northeast	41	9	20	10	2
North Central	99	39	54	6	c
South	125	16	106	3	c
West	133	51	81	c	1
1978					
United States	498	131	339	24	5
Northeast	41	9	13	18	c
North Central	117	44	70	2	c
South	181	16	161	3	1
West	160	61	95	c	4
1979					
United States	570	150	386	27	6
Northeast	53	11	21	21	c
North Central	121	50	69	2	1
South	227	22	200	4	2
West	169	68	97	c	4
1980					
United States	545	165	362	12	6
Northeast	46	16	20	10	c
North Central	104	46	57	c	1
South	242	36	204	2	c
West	153	67	81	c	5
1981					
United States	447	142	293	7	4
Northeast	40	23	11	5	c
North Central	78	42	36	c	c
South	218	33	184	1	c
West	111	44	63	c	4

a. Includes only privately-owned housing units.

b. Totals may not add due to rounding.

c. Withheld because estimate did not meet Bureau of the Census publication standards.

Source: U.S. Bureau of the Census, Construction Reports—Series C25, *Characteristics of New-Housing*, 1981.

APPLIANCE AND HOUSING DATA

TABLE 119
NUMBER OF OCCUPIED HOUSING UNITS,
BY TYPE OF COOKING FUEL
AND BY CENSUS REGION, 1970-1979

(Thousands of Occupied Units^a)

Year and Region	Total	Gas	Electricity	Oil ^b	Other ^c /None
1970					
United States	63,445	31,244	25,769	303	6,130
Northeast	15,483	9,216	4,897	150	1,217
North Central	17,535	8,956	6,833	45	1,703
South	19,257	7,591	8,904	84	2,679
West	11,169	5,482	5,135	24	531
1973					
United States	69,337	31,924	31,013	87	6,313
Northeast	16,152	9,393	5,503	24	1,232
North Central	18,742	8,940	8,011	23	1,768
South	21,807	7,942	11,065	29	2,771
West	12,636	5,648	6,434	11	543
1974					
United States	70,831	31,908	32,720	82	6,120
Northeast	16,281	9,211	5,747	46	1,277
North Central	18,993	8,908	8,423	14	1,648
South	22,489	7,985	11,797	19	2,688
West	13,067	5,803	6,754	4	506
1975					
United States	72,523	32,493	33,944	76	6,011
Northeast	16,508	9,244	5,973	27	1,264
North Central	19,393	9,051	8,699	16	1,627
South	23,105	8,229	12,224	31	2,621
West	13,518	5,968	7,048	3	499
1976					
United States	74,003	32,299	35,669	44	5,991
Northeast	16,545	9,086	6,178	14	1,267
North Central	19,722	8,978	9,165	7	1,572
South	23,741	8,179	12,897	22	2,643
West	13,996	6,057	7,429	1	509
1977					
United States	75,280	32,207	37,042	45	5,986
Northeast	16,635	9,096	6,280	17	1,242
North Central	19,857	8,857	9,426	14	1,560
South	24,379	8,146	13,563	11	2,659
West	14,408	6,107	7,773	2	526
1978					
United States	77,167	32,576	38,779	107	5,705
Northeast	16,952	9,185	6,568	44	1,155
North Central	20,171	8,847	9,833	32	1,459
South	25,094	8,242	14,234	24	2,594
West	14,950	6,302	8,144	7	497
1979					
United States	78,572	32,551	40,345	84	5,593
Northeast	17,123	9,162	6,752	42	1,166
North Central	20,565	8,958	10,180	15	1,413
South	25,585	8,171	14,873	22	2,519
West	15,299	6,258	8,540	6	496

a. Units include both single-family and multifamily.

b. Oil includes kerosene.

c. Other includes LP gas, coal and wood.

Note: Totals may not add due to rounding.

Sources: For 1970, U.S. Bureau of the Census, *Census of Housing: 1970. Detailed Housing Characteristics*. For 1973-1977, U.S. Bureau of the Census, *Current Housing Reports—Series H-150, Annual Housing Survey, Part A*. For 1978-1979, U.S. Bureau of the Census, *Current Housing Reports—Series H-150, Annual Housing Survey, Part F: Energy—Related Housing Characteristics*.

GAS FACTS

TABLE 120
NUMBER OF OCCUPIED HOUSING UNITS,
BY TYPE OF FUEL USED FOR
WATER HEATING AND CLOTHES DRYING,
AND BY CENSUS REGION, 1970^f

(Thousands of Occupied Units^a)

Use and Region	Total	Gas	Electricity	Oil ^b	Other ^c /None
Water Heating					
United States	63,445	34,959	16,103	6,201	6,184
Northeast	15,483	6,860	2,314	5,364	942
North Central	17,535	11,574	4,034	247	1,682
South	19,257	8,826	6,921	507	3,004
West	11,169	7,699	2,834	83	556
Clothes Drying					
United States	63,445	7,840	18,637	d	36,970 ^e
Northeast	15,483	1,830	4,002	d	9,648 ^e
North Central	17,535	3,547	5,708	d	8,282 ^e
South	19,257	1,175	5,173	d	12,910 ^e
West	11,169	1,288	3,754	d	6,130 ^e

a. Units include both single-family and multifamily.

b. Oil includes kerosene.

c. Other includes LP gas, coal and wood.

d. Not applicable.

e. Occupied housing units with no clothes dryers.

f. 1980 data not available until early 1983.

Source: For 1970, U.S. Bureau of the Census, *Census of Housing: 1970, Detailed Housing Characteristics*.

SECTION XII

FINANCE

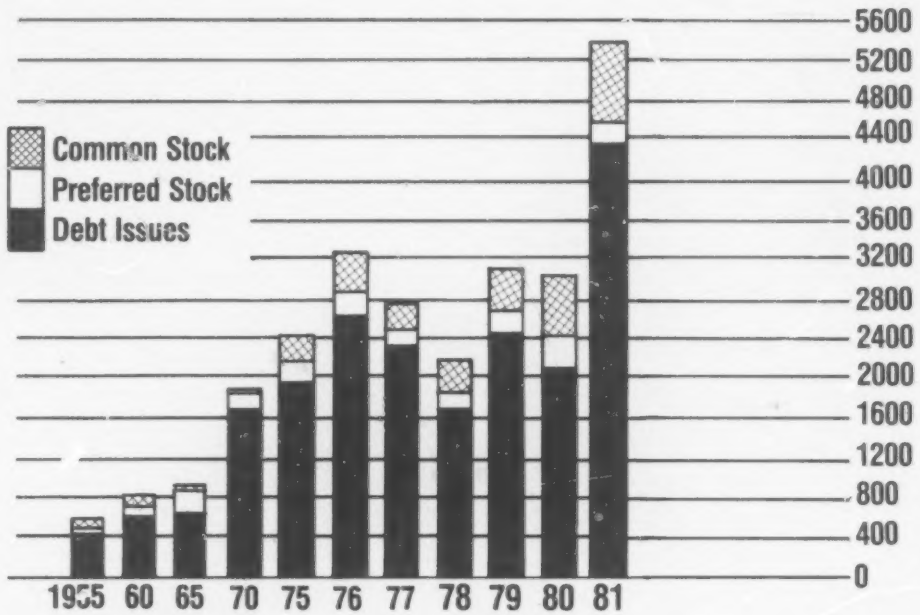
PART 1. SECURITY ISSUES

	1981	% Change 81/80
No. of Issues		
Total	472	+ 71.6
Common Stock	246	+143.6
Preferred Stock	27	- 12.9
Debt Issues	199	+ 39.2
Amount		
(Thousands)		
Total	\$12,384,931	+ 17.9
Common Stock	2,816,829	- 2.2
Preferred Stock	654,940	- 49.2
Debt Issues	8,913,162	+ 40.6

GAS FACTS

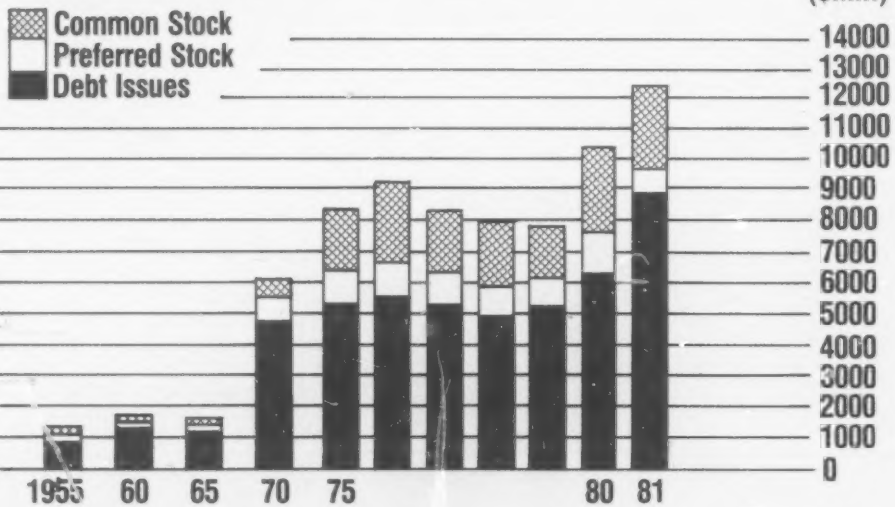
CHART 18

GAS UTILITY INDUSTRY NEW SECURITY ISSUES DISTRIBUTION, TRANSMISSION AND INTEGRATED COMPANIES (\$Mil.)



ALL GAS UTILITY COMPANIES

(INCLUDES COMBINATION AND HOLDING COMPANIES)



REFERENCE: TABLE 121, 124, 126, 128, 130 & 132

SECURITY ISSUES

TABLE 121
GAS UTILITY INDUSTRY SECURITY ISSUES
OF DISTRIBUTION, TRANSMISSION, GAS HOLDING,^a AND COMBINATION GAS AND ELECTRIC COMPANIES
1955-1981^b

Year	Total			Common Stock			Preferred Stock			Total			Bonds			Debentures			Notes		
	No. of Issues	Amount (\$000)	Amount (\$000)	No. of Issues	Amount (\$000)	No. of Issues	Amount (\$000)	No. of Issues	Amount (\$000)	No. of Issues	Amount (\$000)	No. of Issues	Amount (\$000)	No. of Issues	Amount (\$000)	No. of Issues	Amount (\$000)	No. of Issues	Amount (\$000)		
1955	143	\$ 1,412,753	\$ 274,153	35	\$ 274,153	23	\$ 192,043	85	\$ 946,557	60	\$ 734,25	15	\$ 146,693	10	\$ 65,439	10	\$ 65,439	10	\$ 65,439		
1960	193	1,859,043	240,509	67	240,509	19	202,267	107	1,416,267	79	1,098,250	20	276,323	8	41,694	8	41,694	8	41,694		
1965	176	1,728,807	99,444	60	99,444	28	324,790	88	1,304,573	61	854,010	18	410,900	9	39,663	9	39,663	9	39,663		
1966	164	1,966,903	109,905	56	109,905	22	200,906	86	1,656,092	70	1,375,390	8	222,412	8	58,290	8	58,290	8	58,290		
1967	187	2,930,328	59,205	50	59,205	23	265,847	114	2,605,276	82	1,997,644	21	565,274	11	42,358	11	42,358	11	42,358		
1968	167	2,760,665	143,110	52	143,110	16	258,254	99	2,359,301	70	1,540,501	18	588,750	11	230,050	11	230,050	11	230,050		
1969	204	3,443,576	457,935	78	457,935	18	267,762	103	2,717,879	64	1,664,945	26	758,569	18	294,365	18	294,365	18	294,365		
1970	280	6,030,084	745,638	68	745,638	33	620,674	179	4,663,772	125	3,502,000	27	897,500	27	264,272	27	264,272	27	264,272		
1971	330	7,012,900	1,283,271	96	1,283,271	47	965,439	187	4,764,190	103	3,193,366	26	927,500	58	643,324	58	643,324	58	643,324		
1972	286	6,832,495	1,306,307	93	1,306,307	39	1,185,808	158	4,340,380	87	3,032,306	13	554,500	58	753,574	58	753,574	58	753,574		
1973	286	6,302,378	1,408,410	96	1,408,410	39	1,073,959	151	3,820,009	82	2,466,690	6	260,000	63	1,093,319	63	1,093,319	63	1,093,319		
1974	286	7,889,359	1,144,544	102	1,144,544	39	1,128,175	145	5,616,640	78	3,950,281	17	739,519	50	926,840	50	926,840	50	926,840		
1975	353	8,312,575	1,973,385	141	1,973,385	42	1,059,396	170	5,279,794	101	3,661,125	19	911,571	50	707,098	50	707,098	50	707,098		
1976	336	9,104,026	2,472,747	152	2,472,747	41	1,106,268	143	5,523,011	75	2,899,279	16	860,500	52	1,763,232	52	1,763,232	52	1,763,232		
1977	336	8,244,438	1,864,904	167	1,864,904	40	1,106,130	129	5,273,404	70	2,956,200	10	461,500	49	1,855,704	49	1,855,704	49	1,855,704		
1978	351	7,933,090	2,167,077	163	2,167,077	48	1,055,458	140	4,710,555	73	3,189,650	12	306,516	55	1,214,389	55	1,214,389	55	1,214,389		
1979	322	7,959,649	1,860,954	162	1,860,954	30	773,692	130	5,325,003	69	2,908,350	11	895,000	50	1,521,653	50	1,521,653	50	1,521,653		
1980	275	10,508,334	2,879,775	101	2,879,775	31	1,288,237	143	6,340,322	73	3,571,945	18	1,510,000	52	1,258,377	52	1,258,377	52	1,258,377		
1981	472	12,384,931	2,816,829	246	2,816,829	27	654,940	199	8,913,162	110	5,051,554	16	1,207,500	73	2,654,108	73	2,654,108	73	2,654,108		

a. Gas holding companies used in this section are as follows: Colonial Gas Energy System, Columbia Gas Systems, Inc., Consolidated Natural Gas, Northern States Power Company, Peoples Energy Corp., Public Service Company of Colorado, Union Electric Company.

b. All new and refunding security issues, except sales by subsidiaries to parent companies and direct exchanges, for which data were obtainable have been included. Short term notes for less than one year are omitted. Bonds, debentures, and notes are included in principal amounts; preferred stocks at stated or liquidating values; and common stocks at offerings prices.

GAS FACTS

TABLE 122
GAS UTILITY INDUSTRY AVERAGE PERCENT COST AND YIELD OF SECURITY ISSUES
OF DISTRIBUTION, TRANSMISSION, GAS HOLDING,^a AND COMBINATION GAS AND ELECTRIC COMPANIES
1955-1981^b

Year	Preferred Stock				Bonds				Debentures				Sample Amount (000)					
	Cost %		Yield %		Cost %		Yield %		Cost %		Yield %		Preferred Stock		Bonds		Debentures	
	Average	Weighted Average	Average	Weighted Average	Average	Weighted Average	Average	Weighted Average	Average	Weighted Average	Average	Weighted Average	Average	Weighted Average	Stock	Bonds	Debentures	
1955	4.69	4.56	4.59	4.46	3.55	3.48	3.53	3.46	3.98	3.74	3.95	3.70	\$ 188,868	\$ 676,975	\$ 136,593			
1960	5.61	5.51	5.50	5.45	5.22	5.03	5.17	4.98	5.22	5.09	5.14	5.03	192,767	1,017,700	266,602			
1965	4.71	4.78	4.69	4.76	4.77	4.74	4.75	4.71	4.84	4.87	4.81	4.82	268,200	806,460	403,700			
1966	5.60	5.61	5.59	5.57	5.80	5.80	5.74	5.73	5.94	5.91	5.86	5.83	89,130	1,251,935	150,000			
1967	6.15	6.18	6.10	6.11	6.17	6.18	6.11	6.10	6.43	6.43	6.32	6.35	224,370	1,882,995	597,500			
1968	6.69	6.63	6.62	6.55	6.80	6.82	6.73	6.80	7.13	7.19	7.04	7.10	133,000	1,448,801	442,000			
1969	8.08	8.04	7.95	7.93	7.66	7.61	8.52	8.22	8.39	8.47	8.52	8.22	226,888	1,664,945	758,569			
1970	9.25	9.27	9.16	9.18	9.04	9.08	9.06	9.26	9.16	9.36	9.06	9.26	570,674	3,492,500	897,000			
1971	8.16	7.98	8.05	7.87	8.06	7.90	7.97	7.81	8.16	8.14	8.07	8.05	922,312	3,098,589	912,500			
1972	7.70	7.65	7.62	7.56	7.60	7.56	7.53	7.50	7.53	7.44	7.46	7.38	1,074,539	2,631,306	455,500			
1973	7.72	7.61	7.66	7.54	7.98	7.93	7.91	7.87	7.80	7.77	7.73	7.71	1,051,459	2,137,890	200,000			
1974	9.96	9.83	9.82	9.68	9.76	9.84	9.67	9.75	9.48	9.34	9.40	9.25	996,175	3,222,000	535,000			
1975	10.87	10.89	10.55	10.53	10.10	10.06	10.00	9.97	10.28	10.31	10.17	10.20	1,028,515	3,346,050	801,000			
1976	10.15	9.49	9.16	9.24	8.96	9.01	8.87	8.93	8.88	8.87	8.81	8.80	1,050,268	2,826,590	735,000			
1977	8.50	8.45	8.34	8.31	8.51	8.50	8.45	8.44	8.74	8.36	8.63	8.29	973,512	2,682,500	265,000			
1978	8.84	8.75	8.68	8.68	8.40	8.18	8.38	8.01	9.26	9.02	9.12	8.89	806,206	2,669,900	150,000			
1979	9.05	9.32	9.03	9.23	11.14	10.55	11.12	10.48	10.81	11.12	10.65	11.04	705,500	2,348,300	645,000			
1980	11.91	12.40	11.67	12.20	11.99	12.92	11.90	12.82	13.07	12.67	12.97	12.57	935,500	3,038,400	925,000			
1981	13.75	14.06	13.53	13.80	14.98	16.51	14.33	16.34	16.24	16.11	15.80	15.76	630,500	3,956,154	1,207,500			

a. Refer to Table 121 for name of gas holding companies.

b. Includes only those preferred stocks, bonds, and debentures shown in Table 121 for which necessary cost and yield data were available.

Definitions: "Cost" refers to the expenses incurred by a company relative to new security issues over the life of debt issues and fixed dividends (if applicable) on preferred stocks. It includes underwriter fees, plus discount expenses less premiums.

"Yield" is the rate of return on investment by a buyer of these debt issues and fixed dividends (if applicable) expected on preferred stock. It includes underwriter fees, plus premium expenses less discounts.

SECURITY ISSUES

TABLE 123
GAS UTILITY INDUSTRY LONG TERM DEBT ISSUES,
BY MOODY'S BOND RATING CATEGORY, 1981

Rating	Issues		Cost %		Yield %	
	Number	Sample Amount (000)	Average	Weighted Average	Average	Weighted Average
Aaa	•	•	•	•	•	•
Aa	5	\$395,000	15.80	16.02	15.62	15.84
A	15	892,000	16.02	16.18	15.83	16.00
Baa	14	923,000	17.38	17.51	17.08	17.32
Ba	•	•	•	•	•	•

*No issues used in this sample.

SECURITY ISSUES

TABLE 124
GAS UTILITY INDUSTRY COMMON STOCK ISSUES, BY TYPE OF COMPANY
1975-1981^a

Type of Company	1975	1976	1977	1978	1979	1980	1981
Total							
Amount (000)	\$1,973,385	\$2,472,747	\$1,864,904	\$2,167,077	\$1,860,954	\$2,879,775	\$2,816,829
No. of Issues	141	152	167	163	162	101	246
Distribution							
Amount (000)	\$65,016	\$71,185	\$94,917	\$77,052	\$53,295	\$277	\$178,822
No. of Issues	14	9	13	16	9	4	33
Transmission							
Amount (000)	\$139,824	\$251,020	\$107,387	\$80,214	\$323,125	\$453,019	\$565,822
No. of Issues	4	13	9	13	15	7	11
Integrated							
Amount (000)	\$45,711	\$63,363	\$42,398	\$182,100	\$43,012	\$156,900	\$84,240
No. of Issues	19	13	16	19	15	5	20
Combination Utilities							
Amount (000)	\$1,312,958	\$1,790,464	\$1,425,839	\$1,701,314	\$1,385,842	\$2,053,120	\$1,839,529
No. of Issues	87	103	115	106	120	80	169
Gas Holding^b							
Amount (000)	\$99,876	\$296,715	\$194,363	\$126,397	\$55,680	\$216,459	\$148,416
No. of Issues	17	14	14	9	3	5	13

a. See Footnote "b", Table 121 for description of securities included and the derivation of stated amounts.

b. A gas holding company is a corporation that is formed for the sole purpose of owning stock in other gas companies. Names of companies included in Footnote "a" of Table 121.

SECURITY ISSUES

TABLE 125
GAS UTILITY INDUSTRY INDEXES OF
COMMON STOCK PRICES, DIVIDENDS, YIELDS, AND EARNINGS
BY TYPE OF COMPANY, 1976-1981

Type of Company	Year	1976		1977		1978		1979		1980		1981	
	Week	Jun 25	Dec 31	Jun 24	Dec 30	Jun 30	Dec 29	Jun 29	Dec 27	Jun 27	Dec 31	Jun 26	Dec 31
Natural Gas Industry													
a) Market Price (\$ Per Share)		70.12	82.05	85.74	80.80	77.72	72.47	87.10	104.10	108.29	139.35	108.36	106.96
b) Dividend (\$ Per Share)		4.37	4.55	4.73	4.96	5.08	5.43	5.56	5.97	6.18	6.45	6.70	6.91
c) Yield (Percent)		6.23	5.55	5.52	6.14	6.54	7.49	6.38	5.73	5.71	4.63	6.18	6.46
d) Earnings (\$ Per Share)*		10.01	10.55	10.93	11.30	11.52	11.99	11.76	12.22	13.06	14.21	14.55	16.97
Distribution Companies													
a) Market Price (\$ Per Share)		43.98	51.80	53.71	51.02	48.46	45.97	54.04	53.83	54.05	56.19	54.79	53.50
b) Dividend (\$ Per Share)		3.69	3.70	3.87	3.93	4.07	4.18	4.34	4.44	4.61	4.68	4.96	5.12
c) Yield (Percent)		8.39	7.14	7.21	7.70	8.40	9.09	8.03	8.25	8.53	8.33	9.05	9.57
d) Earnings (\$ Per Share)*		4.98	5.52	6.30	5.99	7.43	7.79	7.23	8.00	8.53	8.07	8.81	8.77
Transmission Companies													
a) Market Price (\$ Per Share)		94.77	105.00	106.63	98.94	94.09	87.09	109.73	134.16	138.88	186.77	137.87	135.42
b) Dividend (\$ Per Share)		4.93	5.12	5.28	5.64	5.74	6.25	6.40	7.00	7.20	7.59	7.85	8.29
c) Yield (Percent)		5.20	4.88	4.95	5.70	6.10	7.18	5.83	5.22	5.18	4.06	5.69	6.12
d) Earnings (\$ Per Share)*		13.77	13.59	13.85	14.48	14.36	14.37	14.74	15.30	15.76	19.32	17.45	23.17

*Earnings are for twelve month periods.

Source: Moody's Investors Service, *Moody's Public Utility News Reports*.

GAS FACTS

TABLE 126
GAS UTILITY INDUSTRY PREFERRED STOCK ISSUES, BY TYPE OF COMPANY
1975-1981^a

Type of Company	1975	1976	1977	1978	1979	1980	1981
Total							
Amount (000)	\$1,059,396	\$1,108,268	\$1,106,110	\$1,055,458	\$773,692	\$1,288,237	\$654,940
No. of Issues	42	41	40	48	30	31	27
Distribution							
Amount (000)	\$15,000	\$78,180	\$57,465	\$116,533	\$92,575	\$34,000	\$21,000
No. of Issues	2	5	3	8	5	3	2
Transmission							
Amount (000)	\$110,000	\$152,000	\$74,618	\$3,000	\$70,117	\$259,737	\$125,206
No. of Issues	2	5	5	1	3	1	4
Integrated							
Amount (000)	\$94,075	\$54,500	\$53,250	\$22,252	\$33,500	\$3,500	\$27,000
No. of Issues	5	4	4	2	2	1	1
Combination Utilities							
Amount (000)	\$737,250	\$738,588	\$880,797	\$913,673	\$577,500	\$991,000	\$481,734
No. of Issues	31	24	27	37	20	26	20
Gas Holding^b							
Amount (000)	\$103,071	\$85,000	\$40,000	\$0	\$0	\$0	\$0
No. of Issues	2	3	1	0	0	0	0

a. See Footnote "b", Table 121 for description of securities included and the derivation of stated amounts.

b. A gas holding company is a corporation that is formed for the sole purpose of owning stock in other gas companies. Names of companies included in Footnote "a" of Table 121.

SECURITY ISSUES

TABLE 127
GAS UTILITY INDUSTRY AVERAGE PERCENT COST AND YIELD OF
PREFERRED STOCK ISSUES
1975-1981^a

	1975		1976		1977		1978		1979		1980		1981	
	Cost %	Yield %	Cost %	Yield %	Cost %	Yield %	Cost %	Yield %	Cost %	Yield %	Cost %	Yield %	Cost %	Yield %
Total														
Average	10.87	10.55	10.15	9.16	8.50	8.34	8.84	8.75	9.05	9.03	11.91	11.67	13.75	13.57
Weighted Average	10.89	10.53	9.49	9.24	8.45	8.31	8.90	8.68	9.32	9.23	12.40	12.20	14.06	13.80
Sample Amount (000)		\$1,028,515		\$1,050,268		\$973,512		\$806,206		\$705,500		\$935,500		\$630,500
Distribution														
Average	10.32	10.10	9.88	9.50	8.70	8.51	8.63	8.54	9.34	9.30	9.26	9.08	15.98	15.65
Weighted Average	10.42	10.13	9.88	9.50	8.47	8.36	8.49	8.41	9.34	9.30	9.34	9.13	16.41	15.79
Sample Amount (000)		\$15,000		\$20,180		\$57,465		\$83,533		\$70,000		\$34,000		\$21,000
Transmission														
Average	11.58	11.10	9.68	9.35	7.49	7.45	9.50	9.40	8.38	8.38	*	*	13.28	13.00
Weighted Average	11.61	11.14	10.02	9.65	7.49	7.45	9.50	9.40	8.43	8.43	*	*	13.92	13.60
Sample Amount (000)		\$110,000		\$152,000		\$30,000		\$3,000		\$70,000		\$0		\$125,000
Integrated														
Average	10.82	10.44	8.92	8.79	8.69	8.55	8.70	8.62	9.50	9.50	9.50	9.50	12.25	12.25
Weighted Average	10.63	10.33	8.65	8.63	8.40	8.14	8.70	8.62	9.50	9.50	9.50	9.50	12.25	12.25
Sample Amount (000)		\$94,075		\$54,500		\$53,250		\$12,000		\$8,500		\$3,500		\$27,000
Combination Utilities														
Average	10.87	10.55	10.56	9.17	8.47	8.31	8.52	8.45	8.99	8.93	12.38	12.12	13.67	13.45
Weighted Average	10.81	10.45	9.45	9.21	8.47	8.33	8.95	8.72	9.42	9.32	12.52	12.32	14.10	13.86
Sample Amount (000)		\$707,250		\$738,588		\$792,797		\$707,673		\$557,000		\$898,000		\$457,500
Gas Holding^b														
Average	10.95	10.73	9.43	9.13	8.80	8.50	*	*	*	*	*	*	*	*
Weighted Average	10.95	10.72	9.31	9.01	8.80	8.50	*	*	*	*	*	*	*	*
Sample Amount (000)		\$102,190		\$45,000		\$40,000		\$0		\$0		\$0		\$0

a. Includes only those issues in Table 126 for which necessary cost and yield data were available.

b. A gas holding company is a corporation that is formed for the sole purpose of owning stock in other gas companies. Names of companies included in Footnote "a" of Table 121.

*No issues used in this sample.

Definitions: "Cost" refers to the expenses incurred by a company. It includes dividends, underwriter fees, plus discount expenses less premiums. "Yield" is the rate of return on investment by a buyer.

GAS FACTS

TABLE 128
GAS UTILITY INDUSTRY BOND ISSUES, BY TYPE OF COMPANY
1975-1981^a

Type of Company	1975	1976	1977	1978	1979	1980	1981
Total							
Amount (000)	\$3,661,125	\$2,899,279	\$2,956,200	\$3,189,650	\$2,908,350	\$3,571,945	\$5,051,554
No. of Issues	101	75	70	73	69	73	110
Distribution							
Amount (000)	\$321,375	\$225,965	\$176,000	\$503,750	\$371,150	\$25,545	\$560,500
No. of Issues	22	12	8	11	14	3	20
Transmission							
Amount (000)	\$227,000	\$125,000	\$75,000	\$0	\$167,000	\$53,000	\$875,000
No. of Issues	6	2	3	0	3	1	5
Integrated							
Amount (000)	\$234,750	\$111,000	\$158,500	\$188,000	\$111,100	\$122,500	\$221,400
No. of Issues	11	5	10	8	9	7	6
Combination Utilities							
Amount (000)	\$2,678,000	\$2,364,814	\$2,496,700	\$2,446,400	\$2,259,100	\$3,160,900	\$3,297,909
No. of Issues	59	54	48	52	43	59	74
Gas Holding^b							
Amount (000)	\$200,000	\$72,500	\$50,000	\$51,500	\$0	\$210,000	\$96,745
No. of Issues	3	2	1	2	0	3	5

a. See Footnote "b", Table 121 for description of securities included and the derivation of stated amounts.

b. A gas holding company is a corporation that is formed for the sole purpose of owning stock in other gas companies. Names of companies included in Footnote "a" of Table 121.

SECURITY ISSUES

TABLE 129
GAS UTILITY INDUSTRY AVERAGE PERCENT COST AND YIELD OF
BOND ISSUES
1975-1981^a

	1975		1976		1977		1978		1979		1980		1981	
	Cost %	Yield %	Cost %	Yield %	Cost %	Yield %	Cost %	Yield %	Cost %	Yield %	Cost %	Yield %	Cost %	Yield %
Total														
Average	10.10	10.00	8.96	8.87	8.51	8.45	8.40	8.38	11.14	11.12	11.99	11.90	15.06	14.77
Weighted Average	10.06	9.97	9.01	8.93	8.50	8.44	8.18	8.01	10.55	10.48	12.92	12.82	16.58	16.29
Sample Amount (000)		\$3,346,080		\$2,826,590		\$2,682,200		\$2,669,900		\$2,348,300		\$3,038,400		\$3,956,154
Distribution														
Average	9.96	9.85	8.44	8.39	8.78	8.72	7.00	7.10	11.32	11.26	12.09	12.00	16.09	15.99
Weighted Average	9.95	9.84	8.93	8.87	8.62	8.54	6.67	6.61	11.10	11.42	12.09	12.00	16.68	16.58
Sample Amount (000)		\$241,550		\$201,365		\$123,000		\$310,000		\$224,150		\$15,000		\$497,500
Transmission														
Average	10.26	10.13	9.09	9.00	*	*	*	*	10.63	10.53	*	*	16.65	16.45
Weighted Average	10.23	10.09	9.25	9.16	*	*	*	*	10.63	10.53	*	*	16.27	16.27
Sample Amount (000)		\$207,000		\$125,000		\$0		\$0		\$50,000		\$0		\$175,000
Integrated														
Average	10.44	10.36	9.52	9.43	8.97	8.89	8.50	8.45	12.85	12.75	12.92	12.87	15.88	15.76
Weighted Average	10.53	10.43	9.28	9.19	8.86	8.79	8.96	8.88	12.85	12.75	12.30	12.23	16.05	15.91
Sample Amount (000)		\$170,000		\$79,000		\$129,000		\$157,000		\$70,000		\$47,000		\$218,000
Combination Utilities														
Average	10.09	9.99	8.93	8.89	8.42	8.36	8.85	8.78	9.74	9.92	11.85	11.75	14.73	14.57
Weighted Average	10.04	9.95	8.99	8.92	8.47	8.41	9.19	9.12	10.40	10.29	12.93	12.83	16.55	16.37
Sample Amount (000)		\$2,527,500		\$2,351,225		\$2,380,200		\$2,152,900		\$2,004,150		\$2,766,400		\$2,968,909
Gas Holding^b														
Average	9.80	9.81	9.00	8.94	8.41	8.34	9.23	9.18	*	*	13.23	13.14	13.40	13.18
Weighted Average	9.93	9.84	9.00	8.94	8.41	8.34	9.23	9.18	*	*	12.95	12.86	15.57	15.30
Sample Amount (000)		\$200,000		\$70,000		\$50,000		\$50,000		\$0		\$210,000		\$96,745

a. Includes only those issues in Table 128 for which necessary cost and yield data were available.

b. A gas holding company is a corporation that is formed for the sole purpose of owning stock in other gas companies. Names of companies included in Footnote "a" of Table 121.

*No issues used in this sample.

Definitions: "Cost" refers to the expenses incurred by a company. It includes dividends, underwriter fees, plus discount expenses less premiums.

"Yield" is the rate of return on investment by a buyer.

GAS FACTS

TABLE 130
GAS UTILITY INDUSTRY DEBENTURE ISSUES, BY TYPE OF COMPANY
1975-1981^a

Type of Company	1975	1976	1977	1978	1979	1980	1981
Total							
Amount (000)	\$911,571	\$860,500	\$461,500	\$306,516	\$895,000	\$1,510,000	\$1,207,500
No. of Issues	19	16	10	12	11	18	16
Distribution							
Amount (000)	\$0	\$25,000	\$70,000	\$0	\$40,000	\$0	\$88,500
No. of Issues	0	1	3	0	1	0	4
Transmission							
Amount (000)	\$360,771	\$370,000	\$175,000	\$130,000	\$450,000	\$663,500	\$689,000
No. of Issues	8	6	1	2	4	8	7
Integrated							
Amount (000)	\$234,800	\$315,500	\$101,500	\$106,500	\$215,000	\$416,500	\$340,000
No. of Issues	6	7	4	7	3	5	3
Combination Utilities							
Amount (000)	\$100,000	\$0	\$0	\$70,016	\$15,000	\$230,000	\$90,000
No. of Issues	1	0	0	3	1	3	2
Gas Holding^b							
Amount (000)	\$216,000	\$150,000	\$115,000	\$0	\$175,000	\$200,000	\$0
No. of Issues	4	2	2	0	2	2	0

a. See Footnote "b", Table 121 for description of securities included and the derivation of stated amounts.

b. A gas holding company is a corporation that is formed for the sole purpose of owning stock in other gas companies. Names of companies included in Footnote "a" of Table 121.

SECURITY ISSUES

TABLE 131
GAS UTILITY INDUSTRY AVERAGE PERCENT COST AND YIELD OF
DEBENTURE ISSUES
1975-1981^a

	1975		1976		1977		1978		1979		1980		1981	
	Cost %	Yield %	Cost %	Yield %	Cost %	Yield %	Cost %	Yield %	Cost %	Yield %	Cost %	Yield %	Cost %	Yield %
Total														
Average	10.28	10.17	8.88	8.81	8.74	8.63	9.26	9.12	10.81	10.65	13.07	12.97	16.24	15.80
Weighted Average	10.31	10.20	8.87	8.80	8.36	8.29	9.02	8.89	11.12	11.04	12.67	12.57	16.11	15.76
Sample Amount (000)		\$801,000		\$735,000		\$265,000		\$150,000		\$645,000		\$925,000		\$1,207,500
Distribution														
Average	*	*	*	*	7.36	7.28	*	*	9.93	9.88	*	*	16.22	15.81
Weighted Average	*	*	*	*	7.36	7.28	*	*	9.93	9.88	*	*	17.20	16.85
Sample Amount (000)		\$0		\$0		\$50,000		\$0		\$40,000		\$0		\$88,500
Transmission														
Average	10.07	9.99	8.92	8.84	*	*	*	*	11.31	11.22	13.89	13.81	16.65	16.24
Weighted Average	10.08	10.00	8.88	8.79	*	*	*	*	11.40	11.30	14.10	14.02	16.49	16.09
Sample Amount (000)		\$255,000		\$270,000		\$0		\$0		\$200,000		\$175,000		\$689,000
Integrated														
Average	10.06	9.95	8.87	8.79	9.39	9.24	9.69	9.55	10.75	10.68	11.65	11.56	14.80	14.43
Weighted Average	9.85	9.76	8.88	8.80	8.87	8.77	9.21	9.11	10.98	10.94	11.17	11.09	14.86	14.69
Sample Amount (000)		\$230,000		\$315,000		\$100,000		\$80,000		\$215,000		\$400,000		\$340,000
Combination Utilities														
Average	12.86	12.62	*	*	*	*	8.83	8.68	10.92	10.38	14.54	14.39	17.02	16.33
Weighted Average	12.86	12.62	*	*	*	*	8.81	8.64	10.92	10.38	14.64	14.48	16.78	16.22
Sample Amount (000)		\$100,000		\$0		\$0		\$70,000		\$15,000		\$150,000		\$90,000
Gas Holding ^b														
Average	10.22	10.11	8.84	8.79	8.44	8.38	*	*	11.16	11.08	12.93	12.84	*	*
Weighted Average	9.89	9.80	8.84	8.79	8.36	8.31	*	*	11.27	11.18	12.93	12.84	*	*
Sample Amount (000)		\$216,000		\$150,000		\$115,000		\$0		\$175,000		\$200,000		\$0

a. Includes only those issues in Table 130 for which necessary cost and yield data were available.

b. A gas holding company is a corporation that is formed for the sole purpose of owning stock in other gas companies. Names of companies included in Footnote "a" of Table 121.

*No issues used in this sample.

Definitions: "Cost" refers to the expenses incurred by a company. It includes dividends, underwriter fees, plus discount expenses less premiums.

"Yield" is the rate of return on investment by a buyer.

GAS FACTS

TABLE 132
GAS UTILITY INDUSTRY NOTE ISSUES, BY TYPE OF COMPANY
1975-1981^a

Type of Company	1975	1976	1977	1978	1979	1980	1981
Total							
Amount (000)	\$707,098	\$1,763,232	\$1,855,704	\$1,214,389	\$1,521,653	\$1,258,377	\$2,654,108
No. of Issues	50	52	49	55	50	52	73
Distribution							
Amount (000)	\$7,000	\$34,400	\$43,585	\$97,854	\$140,500	\$153,900	\$123,135
No. of Issues	3	3	8	6	6	4	11
Transmission							
Amount (000)	\$510,951	\$1,320,119	\$663,644	\$468,150	\$666,066	\$455,764	\$1,209,039
No. of Issues	24	20	15	12	7	16	21
Integrated							
Amount (000)	\$58,316	\$101,070	\$882,390	\$215,441	\$318,770	\$228,571	\$281,479
No. of Issues	7	11	8	15	14	9	7
Combination Utilities							
Amount (000)	\$125,836	\$252,357	\$254,774	\$432,775	\$396,317	\$383,142	\$978,455
No. of Issues	11	14	16	21	23	22	33
Gas Holding^b							
Amount (000)	\$4,995	\$55,286	\$11,311	\$169	\$0	\$37,000	\$62,000
No. of Issues	5	4	2	1	0	1	1

a. See Footnote "b", Table 121 for description of securities included and the derivation of stated amounts.

b. A gas holding company is a corporation that is formed for the sole purpose of owning stock in other gas companies. Names of companies included in Footnote "a" of Table 121.

SECTION XII

FINANCE

PART 2. INCOME ACCOUNTS

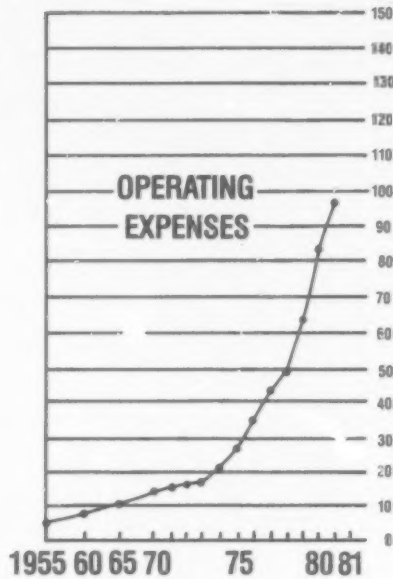
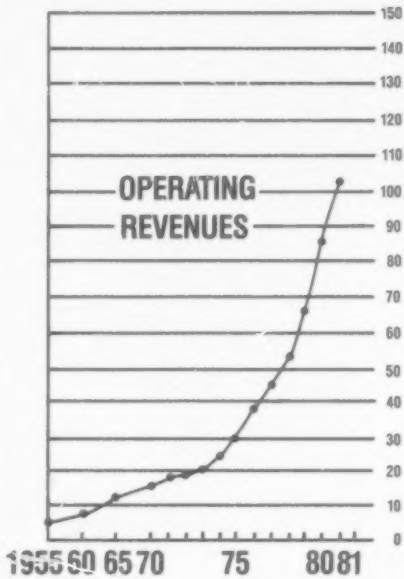
	1981	% Change 81/80
Total Operating Revenues		
(Millions)		
Total Industry	\$102,138	+ 19.0
Distribution	10,653	- 23.8
Transmission	50,867	+ 22.4
Integrated	25,534	+ 48.3
Combination	15,084	+ 15.7
Net Income		
(Millions)		
Total Industry	\$ 5,174	+ 18.2
Distribution	267	- 40.9
Transmission	3,088	+ 22.8
Integrated	1,223	+ 46.1
Combination	596	+ 3.8

GAS FACTS

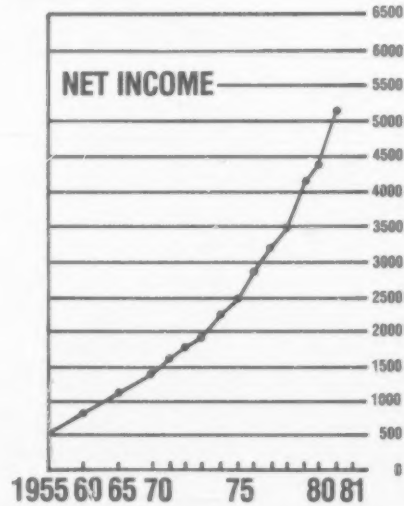
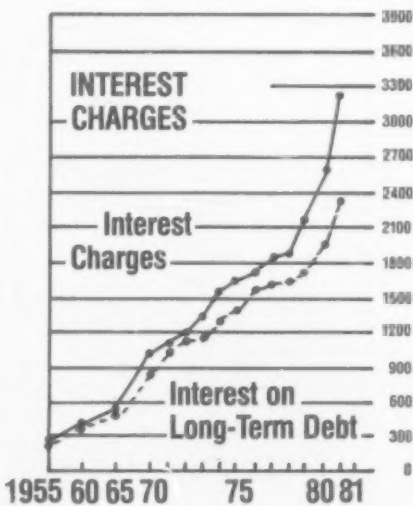
CHART 19

COMPOSITE INCOME ACCOUNTS GAS UTILITY INDUSTRY (INVESTOR-OWNED)

BILLIONS OF DOLLARS



MILLIONS OF DOLLARS

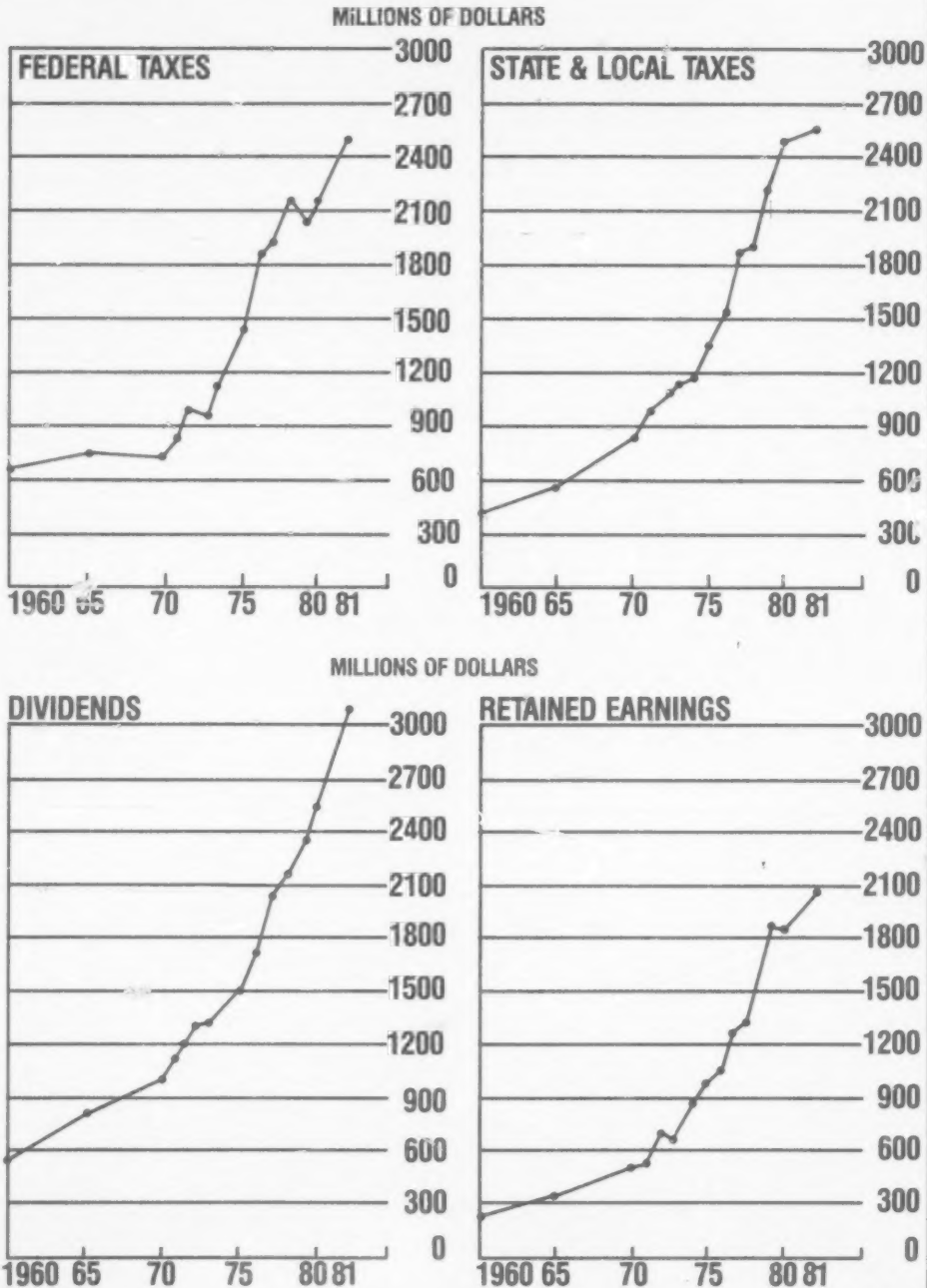


REFERENCE: TABLE 133

INCOME ACCOUNTS

CHART 20

GAS UTILITY INDUSTRY DISPOSITION OF NET INCOME AND TAXES (INVESTOR-OWNED)



REFERENCE: TABLE 133

GAS FACTS

TABLE 133
COMPOSITE INCOME ACCOUNTS
INVESTOR-OWNED GAS UTILITY INDUSTRY
TOTAL INDUSTRY^a 1955-1981

	(Millions)						
	1955	1960	1965	1970	1975	1980	1981
Total Operating Revenues	\$5,063	\$8,696	\$11,525	\$16,380	\$30,550	\$85,807	\$102,138
Operation Expenses	3,193	5,689	7,657	11,205	22,254	73,229	88,166
Maintenance Expenses	190	262	316	431	703	1,204	1,436
Total Operation and Maintenance Expenses	3,383	5,951	7,973	11,636	22,957	74,433	89,602
Depreciation, Retirements, Depletion, etc.	349	578	798	1,101	1,760	2,431	2,768
Federal Income Taxes ^b		540	633	605	965	1,375	1,103
Provision for Deferred Federal Income Taxes	409				465	1,948	2,230
Portion of Current Federal Income Taxes Provided For in Prior Years		79	45	34	(252)	(1,587)	(1,440)
Investment Tax Credit Adjustment	b	b	b	b	130	210	318
Other Federal Taxes	13	22	27	55	109	201	293
State Income Taxes	14	23	26	46	116	196	217
Other State and Local Taxes	230	394	561	829	1,230	2,310	2,349
Total Taxes	666	1,058	1,292	1,569	2,763	4,653	5,070
Total Operating Expenses	4,398	7,587	10,063	14,306	27,480	81,517	97,440
Operating Income	565	1,109	1,462	2,074	3,070	4,290	4,698
Other Operating Income	2	3	7	12	21	23	25
Allowance for Funds Used During Construction	15	25	34	73	130	320	390
Utility Operating Income	682	1,137	1,503	2,159	3,221	4,633	5,113
Other Income (Non-Operating) (Net) ^c	48	110	157	298	916 ^d	2,479 ^d	3,306 ^d
Income Before Interest Charges	730	1,247	1,660	2,457	4,137 ^d	7,112 ^d	8,419 ^d
Interest on Long-Term Debt	197	374	499	867	1,423	1,959	2,362
Amortization of Debt Disc. Exp. and Premium	2	2	5	9	12	15	15
Other Interest Expense (Net)	22	41	49	154	203	622	865
Total Interest Charges	221	417	553	1,030	1,638	2,596	3,242
Net Income Before Extraordinary Items	e	e	e	e	2,499 ^d	4,516 ^d	5,177 ^d
Extraordinary Items, Less Taxes	e	e	e	e	3	(139)	(3)
Net Income	509	830	1,107	1,427	2,502 ^d	4,377 ^d	5,174 ^d
Preferred Dividends	41	69	78	129	184	297	343
Common Dividends	335	512	703	877	1,325	2,269	2,737
Note:							
Number of Companies Reporting ^f	267	310	304	291	204	197	192
Op. Rev. of Companies Reporting (Millions)	\$4,365	\$8,112	\$10,751	\$15,776	\$29,057	\$79,233	\$ 93,173

- a. For combination companies, only gas operations are included.
b. "Investment Tax Credit Adjustment" included in "Federal Income Taxes" prior to 1971.
c. "Extraordinary Items" included in "Other Income (Non-Operating) (Net)" prior to 1971.
d. Not comparable with prior years due to a 1973 Federal Power Commission ruling requiring adoption of the equity method in reporting earnings of subsidiaries.
e. Not available.
f. Financial data of report companies expanded to represent total industry on the basis of operating revenues. As of 1971 total number of sample companies limited to companies with operating revenues over \$3,000,000.
(): Denotes negative.

INCOME ACCOUNTS

TABLE 134
COMPOSITE INCOME ACCOUNTS
INVESTOR-OWNED GAS UTILITY INDUSTRY
DISTRIBUTION COMPANIES, 1975-1981

	(Millions)						
	1975	1976 ^a	1977	1978	1979	1980	1981 ^a
Total Operating Revenues	\$5,938	\$7,375	\$8,705	\$9,936	\$11,767	\$13,984	\$10,653
Operation Expenses	1,333	5,613	6,696	7,766	9,410	11,517	9,061
Maintenance Expenses	165	179	206	213	233	251	194
Total Operation and Maintenance Expenses	4,498	5,792	6,902	7,979	9,643	11,768	9,255
Depreciation, Retirements, Depletion, etc.	246	270	284	299	315	336	227
Federal Income Taxes	117	139	206	218	209	192	49
Provision for Deferred Federal Income Taxes	67	72	77	91	106	97	99
Portion of Current Federal Income Taxes							
Provided For in Prior Years	(6)	(28)	(26)	(19)	(30)	(43)	(33)
Investment Tax Credit Adjustment	26	35	35	34	32	53	34
Other Federal Taxes	30	32	35	39	45	50	43
State Income Taxes	17	16	20	25	26	33	21
Other State and Local Taxes	414	476	554	615	668	750	437
Total Taxes	665	742	901	1,001	1,056	1,132	650
Total Operating Expenses	5,409	6,804	8,087	9,279	11,014	13,236	10,132
Operating Income	529	571	618	657	753	748	521
Other Operating Income	4	2	1	2	2	3	6
Allowance for Funds Used During Construction	8	7	3	3	5	8	16
Utility Operating Income	541	580	622	662	760	759	543
Other Income (Non-Operating)(Net)	21	21	24	38	56	50	37
Income Before Interest Charges	562	601	646	700	816	809	580
Interest on Long-Term Debt	213	224	225	233	252	277	214
Amortization of Debt Disc. Exp. and Premium	2	2	2	2	2	2	2
Other Interest Expense (Net)	34	27	23	33	48	79	99
Total Interest Charges	249	253	250	267	303	358	315
Net Income Before Extraordinary Items	313	348	396	433	513	451	265
Extraordinary Items, Less Taxes	3	(4)	4	b	5	1	2
Net Income	316	344	400	433	518	452	267
Preferred Dividends	21	25	23	24	27	30	20
Common Dividends	212	217	259	273	333	328	158
Note:							
Number of Companies Reporting	57	55	53	53	51	56	49
Op. Rev. of Companies Reporting (Millions)	\$5,572	\$6,773	\$8,305	\$9,936	\$10,741	\$12,942	\$9,649

a. Data not directly comparable to previous years due to reclassification of several companies.

b. Less than \$500,000.

(): Denotes negative.

GAS FACTS

TABLE 135
COMPOSITE INCOME ACCOUNTS
INVESTOR-OWNED GAS UTILITY INDUSTRY
TRANSMISSION COMPANIES, 1955-1981

	(Millions)						
	1955	1960	1965	1970 ^a	1975	1980	1981
Total Operating Revenues	\$1,655	\$3,190	\$4,088	\$5,928	\$11,898	\$41,574	\$50,867
Operation Expenses	980	2,031	2,747	4,094	8,463	36,030	44,838
Maintenance Expenses	39	64	78	109	187	405	495
Total Operation and Maintenance Expenses	1,019	2,095	2,825	4,203	8,650	36,435	45,333
Depreciation, Retirements, Depletion, etc.	159	284	357	509	896	1,240	1,466
Federal Income Taxes ^b		163	212	200	646	848	654
Provision for Deferred Federal Income Taxes	140				246	1,432	1,552
Portion of Current Federal Income Taxes Provided For in Prior Years		56	13	(9)	(221)	(1,249)	(1,091)
Investment Tax Credit Adjustment	b	b	b	b	48	77	160
Other Federal Taxes	2	4	5	11	22	52	100
State Income Taxes	4	8	8	12	52	88	106
Other State and Local Taxes	46	88	117	162	221	574	366
Total Taxes	192	319	355	376	1,014	1,822	1,847
Total Operating Expenses	1,370	2,698	3,537	5,088	10,560	39,497	48,646
Operating Income	285	492	551	840	1,338	2,077	2,221
Other Operating Income	c	c	c	c	c	3	c
Allowance for Funds Used During Construction	8	11	18	24	38	127	161
Utility Operating Income	293	503	569	864	1,376	2,207	2,382
Other Income (Non-Operating) (Net) ^d	14	32	70	190	640 ^e	1,767 ^e	2,399 ^e
Income Before Interest Charges	307	535	639	1,054	2,016 ^e	3,974 ^e	4,781 ^e
Interest on Long-Term Debt	98	195	237	414	643	984	1,237
Amortization of Debt Disc. Exp. and Premium	1	2	4	7	7	8	7
Other Interest Expense (Net)	8	21	20	70	110	326	454
Total Interest Charges	107	218	261	491	760	1,318	1,698
Net Income Before Extraordinary Items	f	f	f	f	1,256 ^e	2,656 ^e	3,083 ^e
Extraordinary Items, Less Taxes	d	d	d	j	0	(142)	5
Net Income	200	317	378	563	1,256 ^e	2,514 ^e	3,088 ^e
Preferred Dividends	18	33	38	79	79	144	173
Common Dividends	119	184	258	351	600	1,235	1,561
Note:							
Number of Companies Reporting	48	48	47	39	33	38	32
Op. Rev. of Companies Reporting (Millions)	\$1,608	\$3,092	\$3,999	\$5,729	\$11,192	\$37,666	\$44,075

a. Data not directly comparable to previous years due to reclassification of several companies.

b. "Investment Tax Credit Adjustment" included in "Federal Income Taxes" prior to 1971.

c. Less than \$500,000.

d. "Extraordinary Items" included in "Other Income (Non-Operating) (Net)" prior to 1971.

e. Not comparable with prior years due to a 1973 Federal Power Commission ruling requiring adoption of the equity method in reporting earnings of subsidiaries.

f. Not available.

(): Denotes negative.

INCOME ACCOUNTS

TABLE 136
COMPOSITE INCOME ACCOUNTS
INVESTOR-OWNED GAS UTILITY INDUSTRY
INTEGRATED COMPANIES, 1975-1981

	(Millions)						
	1975	1976 ^a	1977	1978	1979	1980	1981 ^a
Total Operating Revenues	\$6,962	\$7,803	\$9,800	\$11,266	\$14,439	\$17,213	\$25,534
Operation Expenses	5,200	5,998	7,771	9,155	12,116	14,851	21,617
Maintenance Expenses	157	176	209	231	265	270	427
Total Operation and Maintenance Expenses	5,357	6,174	7,980	9,385	12,381	15,121	22,044
Depreciation, Retirements, Depletion, etc.	345	356	368	407	464	484	677
Federal Income Taxes	188	224	230	180	24	266	273
Provision for Deferred Federal Income Taxes	79	102	103	153	375	211	361
Portion of Current Federal Income Taxes							
Provided For in Prior Years	(15)	(25)	(46)	(64)	(85)	(194)	(156)
Investment Tax Credit Adjustment	28	31	43	49	37	44	86
Other Federal Taxes	28	31	35	40	48	51	88
State Income Taxes	30	32	33	46	56	49	70
Other State and Local Taxes	244	267	323	349	401	437	895
Total Taxes	582	662	721	752	857	864	1,617
Total Operating Expenses	6,284	7,192	9,070	10,544	13,702	16,469	24,338
Operating Income	678	611	730	722	737	744	1,196
Other Operating Income	17	14	11	9	11	17	19
Allowance for Funds Used During Construction	10	9	8	10	12	17	19
Utility Operating Income	705	634	749	741	760	778	1,234
Other Income (Non-Operating) (Net)	231	292	268	257	433	591	777
Income Before Interest Charges	936	926	1,017	998	1,193	1,369	2,011
Interest on Long-Term Debt	321	336	335	341	356	368	532
Amortization of Debt Disc. Exp. and Premium	3	2	4	3	3	3	4
Other Interest Expense (Net)	39	30	29	54	90	161	242
Total Interest Charges	363	368	368	398	449	532	778
Net Income Before Extraordinary Items	573	558	649	600	744	837	1,233
Extraordinary Items, Less Taxes	2	5	b	1	63	b	(10)
Net Income	575	563	649	601	807	837	1,223
Preferred Dividends	22	21	32	35	35	34	50
Common Dividends	336	403	353	366	392	420	699
Note:							
Number of Companies Reporting	49	46	41	43	40	42	51
Op. Rev. of Companies Reporting (Millions)	\$6,622	\$7,049	\$9,317	\$10,261	\$12,180	\$15,644	\$24,410

a. Data not directly comparable to previous years due to reclassification of several companies.

b. Less than \$500,000.

(): Denotes negative.

GAS FACTS

TABLE 137
COMPOSITE INCOME ACCOUNTS
INVESTOR-OWNED GAS UTILITY INDUSTRY
COMBINATION COMPANIES, 1975-1981

	(Millions)						
	1975	1976	1977	1978	1979	1980	1981
Gas Operations							
Total Operating Revenues	\$ 5,753	\$ 7,023	\$ 7,968	\$ 8,804	\$10,806	\$13,036	\$15,084
Operation Expenses	4,259	5,223	6,179	6,871	8,737	10,831	12,650
Maintenance Expenses	195	204	236	231	262	278	320
Total Operations and Maintenance Expenses	4,454	5,427	6,415	7,102	8,998	11,109	12,970
Depreciation, Retirements, Depletion, etc.	273	296	313	321	346	371	398
Federal Income Taxes	14	134	85	167	167	69	127
Provision for Deferred Federal Income Taxes	74	56	130	110	121	208	218
Portion of Current Federal Income Taxes Provided For in Prior Years	(10)	(22)	(72)	(69)	(85)	(101)	(160)
Investment Tax Credit Adjustment	28	44	27	25	29	36	38
Other Federal Taxes	29	31	33	37	44	48	62
State Income Taxes	17	20	17	18	22	26	20
Other State and Local Taxes	351	406	438	453	493	549	651
Total Taxes	503	669	658	741	790	835	956
Total Operating Expenses	5,230	6,392	7,386	8,164	10,135	12,315	14,324
Operating Income ^a	523	631	582	641	671	721	760
Total Operations							
Total Operating Revenues	\$22,831	\$25,444	\$28,781	\$30,695	\$36,232	\$43,732	\$51,144
Operation Expenses	13,060	14,656	17,213	18,342	22,632	28,488	33,356
Maintenance Expenses	1,193	1,305	1,504	1,672	2,019	2,305	2,564
Total Operation and Maintenance Expenses	14,253	15,961	18,717	20,013	24,651	30,793	35,920
Depreciation, Retirements, Depletion, etc.	1,748	1,858	1,953	2,082	2,349	2,591	2,871
Federal Income Taxes	241	260	404	470	350	538	812
Provision for Deferred Federal Income Taxes	399	456	610	833	963	1,364	1,535
Portion of Current Federal Income Taxes Provided For in Prior Years	(87)	(116)	(256)	(379)	(334)	(749)	(916)
Investment Tax Credit Adjustment	220	474	427	430	334	302	479
Other Federal Taxes	118	125	136	152	196	227	296
State Income Taxes	94	106	107	132	140	164	199
Other State and Local Taxes	2,036	2,211	2,369	2,422	2,605	2,903	3,270
Total Taxes	3,021	3,516	3,797	4,061	4,253	4,749	5,675
Total Operating Expenses	19,022	21,335	24,467	26,157	31,253	38,133	44,466
Operating Income	3,809	4,109	4,314	4,538	4,979	5,599	6,678
Other Operating Income	6	7	8	b	b	b	1
Allowance for Funds Used During Construction	626	663	775	887	1,271	1,567	1,835
Utility Operating Income	4,441	4,779	5,097	5,425	6,209	7,166	8,514
Other Income (Non-Operating)(Net)	152	188	179	247	302	495	605
Income before Interest Charges	4,593	4,967	5,276	5,672	6,511	7,661	9,119
Interest on Long-Term Debt	1,885	1,998	2,104	2,238	2,594	3,035	3,548
Amortization of Debt Disc. Exp. and Premium	8	9	12	14	15	15	21
Other Interest Expense (Net)	171	102	103	119	188	452	621
Total Interest Charges	2,064	2,109	2,219	2,370	2,796	3,502	4,190
Net Income Before Extraordinary Items	2,529	2,858	3,057	3,302	3,715	4,159	4,929
Extraordinary Income Less Taxes	(25)	0	0	0	0	10	1
Net Income	2,504	2,858	3,057	3,302	3,715	4,169	4,930
Preferred Dividends	494	552	591	637	708	801	892
Common Dividends	1,343	1,492	1,630	1,828	2,183	2,556	2,961
Note:							
Number of Companies Reporting	65	63	60	61	58	61	60
Total Op. Revenues of Companies Reporting (Millions)	\$22,506	\$24,925	\$27,803	\$30,370	\$34,771	\$43,548	\$50,989
Gas Revenues of Companies Reporting (Millions)	\$ 5,671	\$ 6,880	\$ 7,697	\$ 8,711	\$10,370	\$12,981	\$15,039

a. Includes "Other Operating Income" which was less than \$500,000 in each year.

b. Less than \$500,000.

(): Denotes negative.

INCOME ACCOUNTS

TABLE 138
INVESTOR-OWNED GAS UTILITY INDUSTRY
GAS OPERATION AND MAINTENANCE EXPENSES
BY TYPE OF COMPANY, 1980-1981

(Millions)

Total Industry Type of Expense	1980		1981	
	Operation	Maintenance ^R	Operation	Maintenance
Purchased Gas Cost and Production Exp.	\$63,957	\$ 0	\$78,531	\$ 0
Other Production and Purch. Exp. and Adjustments	999	153	681	179
Production and Purchases, Total	64,956	153	79,212	179
Storage	415	70	446	82
Transmission	2,755	342	3,211	421
Distribution	1,493	595	1,078	705
Customer accounts	940	a	1,122	a
Sales	183	2	169	2
Administrative and General	2,373	42	2,729	47
Customer Service	114	a	199	a
Total	73,229	1,204	88,166	1,436
Distribution Companies				
Type of Expense	Operation	Maintenance ^R	Operation ^b	Maintenance ^b
Purchased Gas Cost and Production Exp.	\$ 9,610	\$ 0	\$ 7,859	\$ 0
Other Production and Purch. Exp. and Adjustments	346	9	135	6
Production and Purchases, Total	9,956	9	7,994	6
Storage	52	9	20	3
Transmission	18	8	9	7
Distribution	553	213	291	171
Customer accounts	363	a	291	a
Sales	44	a	38	0
Administrative and General	495	12	382	7
Customer Service	36	a	36	a
Total	11,517	251	9,061	194
Transmission Companies				
Type of Expense	Operation	Maintenance ^R	Operation	Maintenance
Purchased Gas Cost and Production Exp.	\$32,268	\$ 0	\$40,745	\$ 0
Other Production and Purch. Exp. and Adjustments	384	101	106	112
Production and Purchases, Total	32,652	101	40,851	112
Storage	213	28	262	34
Transmission	2,258	271	2,691	340
Distribution	a	a	9	3
Customer accounts	7	0	7	0
Sales	6	0	8	0
Administrative and General	892	5	1,009	6
Customer Service	2	0	1	0
Total	36,030	405	44,838	495
Integrated Companies				
Type of Expense	Operation	Maintenance ^R	Operation ^b	Maintenance ^b
Purchased Gas Cost and Production Exp.	\$12,797	\$ 0	\$18,865	\$ 0
Other Production and Purch. Exp. and Adjustments	216	29	296	44
Production and Purchase, Total	13,013	29	19,161	44
Storage	104	23	118	34
Transmission	403	49	440	57
Distribution	407	158	419	273
Customer accounts	285	a	490	a
Sales	125	2	116	2
Administrative and General	489	9	781	17
Customer Service	25	0	92	0
Total	14,851	270	21,617	427
Combination Companies				
Type of Expense	Operation	Maintenance ^R	Operation	Maintenance ^c
Purchased Gas Cost and Production Exp.	\$ 9,282	\$ 0	\$11,062	\$ 0
Other Production and Purch. Exp. and Adjustments	53	14	144	17
Production and Purchases, Total	9,335	14	11,206	17
Storage	46	10	46	11
Transmission	76	14	71	17
Distribution	533	224	359	258
Customer accounts	285	0	334	0
Sales	8	0	7	0
Administrative and General	497	16	557	17
Customer Service	51	0	70	0
Total	10,831	278	12,650	320

a. Less than \$500,000.

b. Not directly comparable to previous year.

R—Revised.

SECTION XII

FINANCE

PART 3. BALANCE SHEETS

	1981	% Change 81/80
Gas Utility Plant		
(Millions)		
Total Industry	\$73,243	+ 9.7
Distribution	7,291	-33.5
Transmission	33,555	+10.3
Integrated	19,536	+46.4
Combination	12,861	+ 6.9
Total Common Equity		
(Millions)		
Total Industry	\$29,380	+14.6
Distribution	2,247	-31.7
Transmission	16,511	+17.3
Integrated	7,273	+41.2
Combination	3,349	+ 7.4

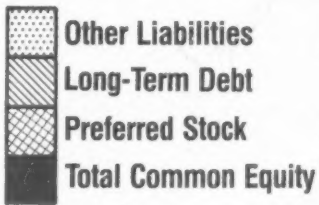
GAS FACTS

CHART 21

GAS UTILITY INDUSTRY INVESTMENT

(Investor-Owned)

BILLIONS OF DOLLARS



REFERENCE: TABLE 139

BALANCE SHEETS

TABLE 139
COMPOSITE BALANCE SHEET ACCOUNTS
INVESTOR-OWNED GAS UTILITY INDUSTRY
TOTAL INDUSTRY, 1955-1981

	(Millions)						
	1955	1960	1965	1970	1975	1980	1981
ASSETS							
Total Gas Utility Plant	\$13,305	\$20,835	\$28,205	\$38,541	\$49,384	\$66,767	\$73,243
Less Accum. Prov. for Depr. and Amort. Net Gas Utility Plant (Total)	2,775	4,570	7,205	10,696	16,779	26,062	29,082
Investment and Fund Accounts	10,530	16,265	21,000	27,845	32,605	40,705	44,161
Current and Accrued Assets	525	1,380	1,885	3,024	9,198 ^a	15,625 ^a	19,540 ^a
Deferred Debits ^b	1,465	2,185	2,545	3,674	7,543	17,211	20,696
Total Assets	140	170	210	386	940	2,184	2,980
	12,660	20,000	25,640	34,929	50,286 ^a	75,725 ^a	87,377 ^a
LIABILITIES							
Common Stock	2,600	3,540	4,360	4,727	5,803	6,973	7,186
Retained Earnings	1,040	1,880	2,715	4,230	7,911 ^a	13,060 ^a	15,462 ^a
Other Paid-in Capital ^c	645	1,045	1,390	2,063	3,245	5,599	6,732
Total Common Equity	4,285	6,465	8,465	11,020	16,959 ^a	25,632 ^a	29,380 ^a
Preferred Stock	860	1,345	1,540	1,945	2,541	3,630	3,857
Total Capital Stock	5,145	7,810	10,005	12,965	19,500 ^a	29,262 ^a	33,237 ^a
Bonds	4,315	6,265	7,525	9,248	10,493	9,533	9,344
Debentures	830	1,445	2,560	4,274	5,174	5,866	7,931
Other Long-Term Debt	755	1,420	1,430	2,159	3,877	6,638	7,323
Total Long-Term Debt	5,900	9,130	11,515	15,681	19,544	22,037	24,598
Total Capitalization	11,045	16,940	21,520	28,646	39,044 ^a	51,299 ^a	57,835 ^a
Current and Accrued Liabilities	1,390	2,420	3,035	4,832	8,158	18,107	22,269
Deferred Credits	80	85	215	370	752	1,655	1,931
Operating Reserves	95 ^d	110	55	48	194	434	252
Contributions in Aid of Construction	50	95	155	245	86	86 ^R	99
Reserves for Deferred Income Taxes	d	350	660	788	207	493 ^R	505
Accumulated Deferred Income Taxes					1,845	3,651 ^R	4,486
Total Liabilities	12,660	20,000	25,640	34,929	50,286 ^a	75,725 ^a	87,377

a. Not comparable with prior years due to a 1973 Federal Power Commission ruling requiring adoption of the equity method in reporting earnings of subsidiaries.

b. Includes "Capital Stock Discount and Expense" and "Reacquired Securities."

c. Includes accounts formerly detailed in "Premiums, Assessments, etc." and "Capital Surplus."

d. "Reserves for Deferred Income Taxes" included in "Operating Reserves."

R--Revised.

GAS FACTS

TABLE 140
COMPOSITE BALANCE SHEET ACCOUNTS
INVESTOR-OWNED GAS UTILITY INDUSTRY
DISTRIBUTION COMPANIES, 1975-1981

	(Millions)						
	1975	1976*	1977	1978	1979	1980	1981*
ASSETS							
Total Gas Utility Plant	\$8,547	\$9,013	\$9,153	\$9,619	\$10,166	\$10,956	\$7,291
Less Accum. Prov. for Depr. and Amort.	2,075	2,328	2,465	2,555	2,892	3,165	2,234
Net Gas Utility Plant (Total)	6,472	6,685	6,688	6,929	7,274	7,791	5,057
Investment and Fund Accounts	223	241	286	356	464	446	426
Current and Accrued Assets	1,379	1,772	1,850	1,935	2,454	3,076	2,649
Deferred Debits	138	141	126	167	191	127	116
Total Assets	8,212	8,839	8,950	9,387	10,383	11,440	8,248
LIABILITIES							
Common Stock	1,110	1,035	1,042	1,064	1,108	1,115	744
Retained Earnings	1,157	1,182	1,246	1,388	1,531	1,626	1,068
Other Paid-in Capital	337	488	489	485	519	551	435
Total Common Equity	2,604	2,705	2,777	2,937	3,158	3,292	2,247
Preferred Stock	330	350	299	355	378	410	236
Total Capital Stock	2,934	3,055	3,076	3,292	3,536	3,702	2,483
Bonds	2,190	2,375	2,297	2,228	2,125	2,185	1,232
Debentures	312	304	145	127	121	98	90
Other Long-Term Debt	575	638	630	701	874	847	848
Total Long-Term Debt	3,077	3,317	3,072	3,056	3,120	3,130	2,170
Total Capitalization	6,011	6,372	6,148	6,348	6,656	6,832	4,653
Current and Accrued Liabilities	1,640	1,820	2,018	2,125	2,701	3,380	2,792
Deferred Credits	161	208	272	302	350	461	325
Operating Reserves	13	14	17	20	23	29	19
Contributions in Aid of Construction	56	39	44	51	54	65	57
Reserves for Deferred Income Taxes	110	144	168	338	392	426	116
Accumulated Deferred Income Taxes	221	243	283	203	207	247	286
Total Liabilities	8,212	8,840	8,950	9,387	10,383	11,440	8,248

*Data not directly comparable to previous years due to reclassification of several companies.

BALANCE SHEETS

TABLE 141
COMPOSITE BALANCE SHEET ACCOUNTS
INVESTOR-OWNED GAS UTILITY INDUSTRY
TRANSMISSION COMPANIES, 1955-1981

	(Millions)						
	1955	1960	1965	1970 ^a	1975	1980	1981
ASSETS							
Total Gas Utility Plant	\$5,190	\$8,960	\$11,505	\$16,363	\$20,351	\$30,433	\$33,555
Less Accum. Prov. for Depr. and Amort. Net Gas Utility Plant (Total)	985	2,040	3,375	5,311	8,636	14,408	16,193
Investment and Fund Accounts	4,205	6,920	8,130	11,052	11,714	16,025	17,362
Current and Accrued Assets	215	870	1,060	1,889	6,791 ^b	12,082 ^b	15,131 ^b
Deferred Debits ^c	535	840	950	1,384	3,459	8,437	11,369
Total Assets	30	65	100	192	516	1,381	2,082
	4,985	8,695	10,240	14,517	22,480 ^b	37,925 ^b	45,944 ^b
LIABILITIES							
Common Stock	655	1,105	1,225	1,477	1,984	2,619	2,713
Retained Earnings	365	665	815	1,430	4,010 ^b	8,027 ^b	9,575 ^b
Other Paid-in Capital ^d	290	570	770	1,233	1,891	3,425	4,223
Total Common Equity	1,310	2,340	2,810	4,140	7,885 ^b	14,071 ^b	16,511 ^b
Preferred Stock	365	640	715	1,019	1,012	1,746	1,905
Total Capital Stock	1,675	2,980	3,525	5,159	8,897 ^b	15,817 ^b	18,416 ^b
Bonds	2,120	3,030	3,060	3,458	3,125	2,416	1,972
Debentures	435	770	1,545	2,560	3,124	3,758	5,556
Other Long-Term Debt	185	590	420	841	2,167	4,104	4,653
Total Long-Term Debt	2,740	4,390	5,025	6,868	8,415	10,278	12,181
Total Capitalization	4,415	7,370	8,550	12,027	17,312 ^b	26,095 ^b	30,597 ^b
Current and Accrued Liabilities	500	1,005	1,200	1,974	3,802	9,092	12,109
Deferred Credits	25	10	65	147	295	491	565
Operating Reserves	40 ^e	65	15	14	113	176	123
Contributions in Aid of Construction	5	15	20	14	0	0 ^R	0
Reserves for Deferred Income Taxes	e	230	390	341	2	5 ^R	5
Accumulated Deferred Income Taxes					957	2,066 ^R	2,545
Total Liabilities	4,985	8,695	10,240	14,517	22,480 ^b	37,925 ^b	45,944 ^b

a. Data for prior years not directly comparable to later years due to reclassification of several companies from Integrated to Transmission. For definitions of companies, refer to Glossary.

b. Not comparable with 1970 and prior years due to a 1973 Federal Power Commission ruling requiring adoption of the equity method in reporting earnings of subsidiaries.

c. Includes "Capital Stock Discount and Expense" and "Reacquired Securities." Subsequent to 1955, "Reacquired Securities" are deducted from the appropriate capital account.

d. Includes accounts formerly detailed in "Premiums, Assessments, etc." and "Capital Surplus."

e. "Reserves for Deferred Income Taxes" and "Accumulated Deferred Income Taxes" included in "Operating Reserves."

R—Revised.

GAS FACTS

TABLE 142
COMPOSITE BALANCE SHEET ACCOUNTS
INVESTOR-OWNED GAS UTILITY INDUSTRY
INTEGRATED COMPANIES, 1975-1981

	(Millions)						
	1975	1976*	1977	1978	1979	1980	1981*
ASSETS							
Total Gas Utility Plant	\$10,960	\$11,375	\$11,881	\$12,659	\$13,551	\$13,348	\$19,536
Less Accum. Prov. for Depr. and Amort. Net Gas Utility Plant (Total)	3,635	3,889	4,091	4,472	4,725	4,767	6,620
Investment and Fund Accounts	7,325	7,486	7,790	8,187	8,826	8,581	12,916
Current and Accrued Assets	2,086	1,940	2,109	2,175	2,603	2,877	3,700
Deferred Debits	1,899	2,034	2,223	2,623	3,558	4,421	5,335
Total Assets	177	244	228	304	384	459	504
	11,487	11,704	12,350	13,289	15,370	16,338	22,455
LIABILITIES							
Common Stock	1,563	1,699	1,638	1,676 ^R	1,758	1,906	2,370
Retained Earnings	1,865	1,904	2,193	2,231	2,484	2,337	3,673
Other Paid-in Capital	567	606	626	818	825	907	1,230
Total Common Equity	3,995	4,209	4,457	4,726 ^R	5,067	5,150	7,273
Preferred Stock	254	227	330	418 ^R	448	406	624
Total Capital Stock	4,249	4,436	4,787	5,144	5,515	5,556	7,897
Bonds	1,850	2,072	1,887	1,714	1,667	1,549	2,680
Debentures	1,622	1,575	1,800	1,709	1,763	1,911	2,209
Other Long-Term Debt	962	834	708	849	1,163	1,303	1,347
Total Long-Term Debt	4,434	4,481	4,395	4,272	4,593	4,763	6,236
Total Capitalization	8,683	8,917	9,182	9,416	10,108	10,319	14,133
Current and Accrued Liabilities	1,991	1,902	2,213	2,678	3,852	4,411	5,976
Deferred Credits	173	228	246	328	328	366	640
Operating Reserves	63	65	91	142	146	223	103
Contributions in Aid of Construction	23	10	11	15	19	19	37
Reserves for Deferred Income Taxes	66	76	50	62	70	61	384
Accumulated Deferred Income Taxes	488	506	557	648 ^R	847	939	1,182
Total Liabilities	11,487	11,704	12,350	13,289	15,370	16,338	22,455

*Data not directly comparable to previous years due to company reclassification.
R—Revised

BALANCE SHEETS

TABLE 143
COMPOSITE BALANCE SHEET ACCOUNTS
INVESTOR-OWNED GAS UTILITY INDUSTRY
COMBINATION COMPANIES, 1975-1981

	(Millions)						
	1975	1976	1977	1978	1979	1980	1981
ASSETS							
Gas Utility Plant	\$ 9,526	\$ 9,780	\$10,186	\$10,408	\$11,340	\$ 12,030	\$ 12,861
Less Accum. Prov. for							
Depr. and Amort.	2,432	2,632	2,908	3,058	3,447	3,722	4,035
Net Gas Utility Plant							
(Total)	7,094	7,148	7,278	7,349	7,894	8,308	8,826
Electric Utility Plant	60,575	64,382	68,666	73,616	84,564	94,464	103,579
Less Accum. Prov. for							
Depr. and Amort.	12,193	13,156	14,223	15,531	17,898	20,146	22,503
Net Electric Utility							
Plant (Total)	48,382	51,226	54,443	58,084	66,666	74,318	81,076
Other	2,142	2,299	2,260	2,401	2,770	3,233	3,955
Less Accum. Prov. for							
Depr. and Amort.	575	639	644	690	797	905	1,063
Net Other (Total)	1,567	1,660	1,616	1,711	1,974	2,328	2,892
Investment and Fund							
Accounts	741	835	1,219	1,499	1,944	2,009	2,650
Current and Accrued							
Assets	6,107	7,159	7,924	8,305	10,109	11,656	12,577
Deferred Debits	830	849	972	1,001	1,715	1,977	2,599
Total Assets	64,721	68,877	73,452	77,949	90,301	100,596	110,620
LIABILITIES							
Common Stock	2,146	9,826	9,726	10,309	12,360	13,385	14,012
Retained Earnings	7,016	7,600	8,277	8,925	9,807	10,740	11,814
Other Paid-in Capital	3,598	3,967	5,031	5,593	5,932	7,193	8,696
Total Common Equity	19,760	21,393	23,034	24,826	28,099	31,318	34,522
Preferred Stock	7,541	7,993	8,403	8,765	9,739	10,723	11,257
Total Capital Stock	27,301	29,386	31,437	33,592	37,837	42,041	45,779
Bonds	26,562	27,435	27,933	28,561	31,252	33,970	35,673
Debentures	925	844	743	773	1,025	990	788
Other Long-Term Debts	1,393	1,280	1,853	2,392	3,186	3,849	4,895
Total Long-Term Debts	28,880	29,559	30,529	31,726	35,464	38,809	41,356
Total Capitalization	56,181	58,945	61,966	65,318	73,301	80,850	87,135
Current and Accrued							
Liabilities	5,783	6,265	7,055	7,505	10,517	12,263	14,354
Deferred Credits	985	1,526	1,931	2,288	2,970	3,386	4,131
Operating Reserves	50	47	45	57	81	58	67
Contributions in Aid of							
Construction	63	57	19	20	26	25	50
Reserves for Deferred							
Income Taxes	233	275	535	475	529	7	4
Accumulated Deferred							
Income Taxes	1,426	1,762	1,901	2,286	2,878	4,007	4,879
Total Liabilities	64,721	68,877	73,452	77,949	90,301	100,596	110,620

GAS FACTS

TABLE 144
TOTAL GAS UTILITY INDUSTRY PLANT, BY TYPE OF COMPANY
AND BY PLANT FUNCTION, 1955-1981

	(Millions)						
	1955	1960	1965	1970	1975	1980	1981
Total Industry							
Total Gas Utility Plant	\$13,750	\$21,525	\$29,175	\$39,914	\$51,004	\$68,983	\$75,033
Production	1,920	2,925	3,180	3,657	4,776	8,014	9,242
Underground Storage	395	755	1,200	1,816	2,697	4,510	4,689
Other Storage	a	a	a	a	700	677	731
LNG	c	c	c	c	c	283	134
Transmission	5,960	9,410	12,435	17,188	20,536	25,456	28,198
Distribution	4,625	7,275	10,660	15,056	19,151	24,835	26,281
General and Intangible ^b	575	835	1,090	1,518	2,226	3,439	4,157
Construction Work in Progress	275	325	610	679	924	1,771	1,601
Total Investor-Owned Industry							
Total Gas Utility Plant	\$13,305	\$20,835	\$28,205	\$38,541	\$49,384	\$66,767	\$73,243
Production	1,835	2,835	3,055	3,529	4,687	7,849	9,082
Underground Storage	395	755	1,190	1,770	2,639	4,436	4,656
Other Storage	a	a	a	a	648	635	640
LNG	c	c	c	c	c	271	123
Transmission	5,960	9,405	12,425	17,170	20,307	25,365	28,162
Distribution	4,310	6,750	9,935	13,989	18,080	23,193	25,107
General and Intangible ^b	545	785	1,020	1,451	2,125	3,306	3,925
Construction Work in Progress	260	305	580	632	896	1,712	1,538
Distribution Companies							
Total Gas Utility Plant	c	c	c	c	\$8,547	\$10,956	\$ 7,291
Production	c	c	c	c	387	526	143
Underground Storage	c	c	c	c	460	627	44
Other Storage	c	c	c	c	172	141	119
LNG	c	c	c	c	c	91	14
Transmission	c	c	c	c	425	332	118
Distribution	c	c	c	c	6,452	8,556	6,320
General and Intangible ^b	c	c	c	c	479	596	462
Construction Work in Progress	c	c	c	c	173	87	71
Transmission Companies							
Total Gas Utility Plant	\$5,190	\$8,960	\$11,505	\$16,363	\$20,351	\$30,433	\$33,555
Production	635	1,430	1,570	1,842	2,650	5,091	5,795
Underground Storage	125	280	325	668	1,299	2,356	2,461
Other Storage	a	a	a	a	113	176	189
LNG	c	c	c	c	c	158	3
Transmission	4,155	6,880	9,040	13,238	15,322	20,276	22,656
Distribution	25	35	5	2	5	7	0
General and Intangible ^b	135	220	260	330	587	1,210	1,538
Construction Work in Progress	115	115	305	283	375	1,159	913
Integrated Companies							
Total Gas Utility Plant	c	c	c	c	\$10,960	\$13,348	\$19,536
Production	c	c	c	c	1,240	1,751	2,650
Underground Storage	c	c	c	c	531	930	1,631
Other Storage	c	c	c	c	62	102	115
LNG	c	c	c	c	c	14	98
Transmission	c	c	c	c	3,418	3,295	3,715
Distribution	c	c	c	c	4,809	6,036	9,615
General and Intangible ^b	c	c	c	c	748	996	1,375
Construction Work in Progress	c	c	c	c	151	224	337
Combination Companies							
Total Gas Utility Plant	c	c	c	c	\$9,526	\$12,030	\$12,861
Production	c	c	c	c	410	481	494
Underground Storage	c	c	c	c	348	523	530
Other Storage	c	c	c	c	301	216	217
LNG	c	c	c	c	c	8	8
Transmission	c	c	c	c	1,144	1,462	1,673
Distribution	c	c	c	c	6,816	8,594	9,172
General and Intangible ^b	c	c	c	c	310	504	550
Construction Work in Progress	c	c	c	c	197	242	217

a. Included in "Production."

b. Includes plant acquisition adjustments and plant adjustments.

c. Not available.

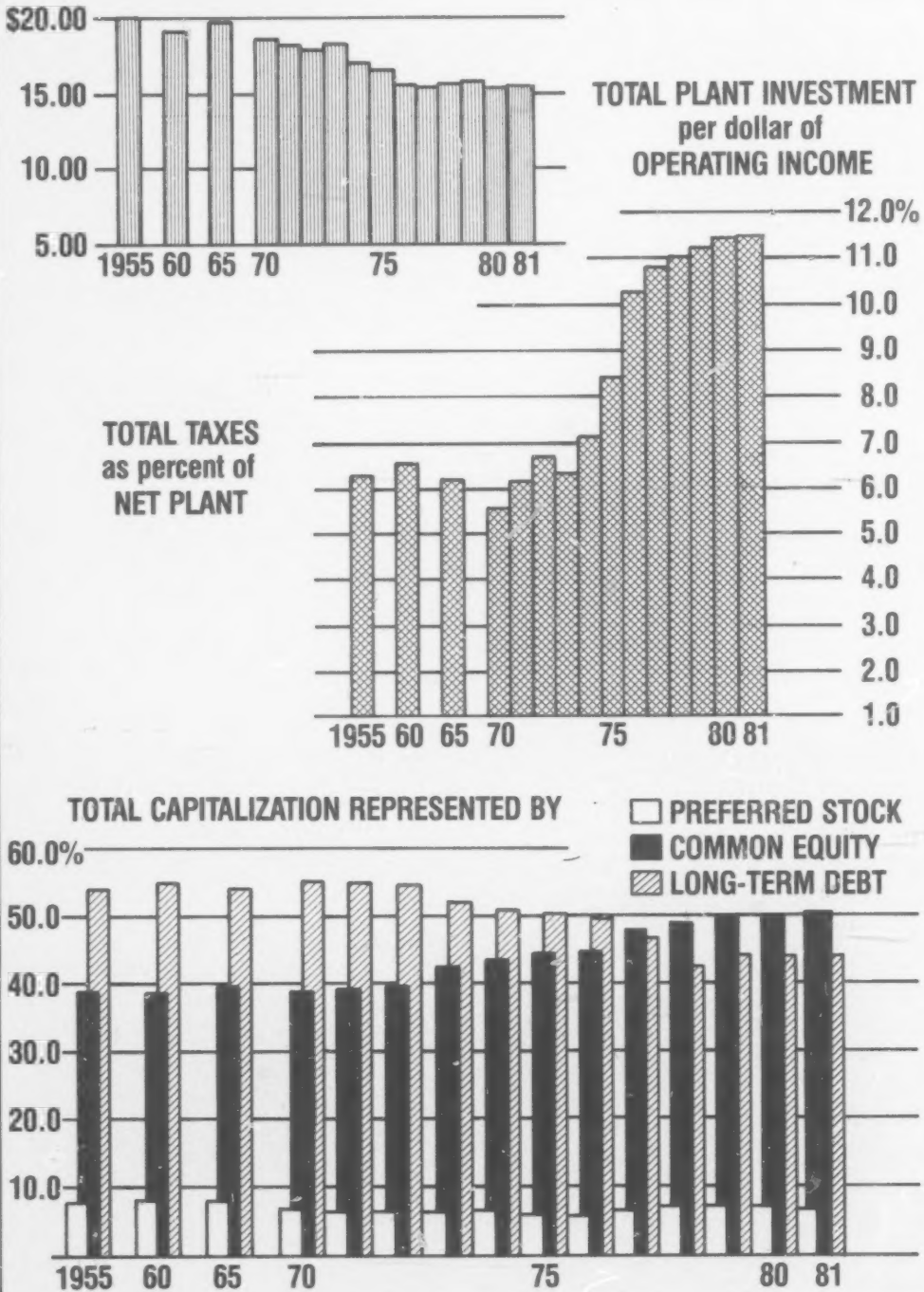
SECTION XII

FINANCE

PART 4. ANALYTICAL RATIOS

	1981	% Change 81/80
Capitalization Represented by (%)		
Long-term Debt	42.5	-0.9
Preferred Stock	6.7	-5.6
Common Equity	50.8	+1.6

GAS UTILITY INDUSTRY FINANCIAL RATIOS (INVESTOR-OWNED)



REFERENCE: TABLES 133, 139 & 145

ANALYTICAL RATIOS

TABLE 145
SELECTED COMPOSITE ANALYTICAL RATIOS
INVESTOR-OWNED GAS UTILITY INDUSTRY
TOTAL INDUSTRY, 1955-1981

	1955	1960	1965	1970	1975	1980	1981
Earnings							
Utility Operating Income as % of Total Plant	5.1	5.5	5.3	5.6	6.5	6.9	7.0
Utility Operating Income as % of Net Plant	6.5	7.0	7.2	7.8	9.9	11.4	11.6
Operating Revenue as % of Total Plant	38.1	41.7	40.9	42.5	61.9	128.5	139.5
Common Dividend Payout Ratio	71.6	67.3	68.3	67.6	57.2 ^a	55.6 ^a	56.7 ^a
Return on Common Equity	10.9	11.8	12.2	11.8	13.7 ^a	15.9 ^a	16.4 ^a
Return on Average Common Equity	11.2	12.2	12.5	12.2	14.3	16.5	17.6
Return on Net Plant	4.4	4.7	4.9	4.7	7.1	10.0	10.9
Pretax Coverage of:							
Total Interest Expense	6.3	5.5	5.3	3.9	4.2	4.5	4.2
Long-Term Debt Interest Expense	7.0	6.0	5.8	4.5	4.7	6.0	5.7
Allowance for Funds Used During Construction as % of Net Income	2.9	3.0	3.1	5.1	5.2	7.3	7.5
Expenses							
Operating Expenses as % of Operating Revenue	86.9	87.2	87.3	87.3	90.0	95.0	95.4
Maintenance Expenses as % of Total Plant	1.4	1.3	1.1	1.1	1.4	1.8	2.0
Depreciation Expenses as % of Total Plant	2.6	2.8	2.8	2.9	3.6	3.6	3.8
Depreciation Expenses as % of Depreciable Plant	b	b	b	b	3.6	4.1 ^R	4.0
Total Taxes as % of Total Plant	5.0	5.1	4.6	4.1	5.6	7.0	6.9
Total Taxes as % of Net Plant	6.3	6.5	6.2	5.6	8.5	11.4	11.5
Total Taxes as % of Net Income plus Total Taxes	56.7	56.0	52.4	52.5	53.9 ^a	51.5 ^a	49.5 ^a
Current Federal Income Tax as % of Net Income plus current Federal Income Tax ^c	44.6	39.4	36.4	29.8	30.4 ^a	26.6 ^a	21.5 ^a
Plant							
Total Plant as % of Total Operating Revenue	257.5	239.6	244.7	235.3	161.6	77.8	71.7
Net Plant as % of Total Operating Revenue	208.0	187.0	182.2	170.0	106.7	47.4	43.2
Depreciation Reserve as % of Total Plant	20.9	21.9	25.5	27.8	34.0	39.0	39.7
Depreciation Reserve as % of Depreciable Plant	b	b	b	b	35.8	43.8 ^R	41.9
Total Plant per Employee (\$000)	68.8	100.9	137.1	182.1	251.6	329.4	350.1
Capitalization							
Long-term Debt as % of Net Plant	56.0	56.1	54.8	56.3	59.4	54.1	55.7
% Total Capitalization Represented by:							
a. Long-term Debt	53.4	53.9	53.5	54.7	50.1	42.9	42.5
b. Preferred Stock	7.8	7.9	7.2	6.8	6.5	7.1	6.7
c. Common Equity	38.8	38.2	39.3	38.5	43.4	50.0	50.8
% Current Year Financing of Construction							
Expenditures Represented by:							
a. Internal Sources	b	b	b	b	53.8	55.3	57.0
b. Equity Issues	b	b	b	b	11.9	11.2	12.5
c. Debt Issues	b	b	b	b	34.3	33.5	30.5

a. Not comparable with prior years due to a 1973 Federal Power Commission ruling requiring adoption of the equity method in reporting earnings of subsidiaries.

b. Not available.

c. Includes "Investment Tax Credit Adjustment" Prior to 1956, also includes "Provisions for Deferred Federal Income Taxes" and "portion of Current Federal Income Taxes Provided For in Prior Years."

R—Revised

GAS FACTS

TABLE 146
SELECTED COMPOSITE ANALYTICAL RATIOS
INVESTOR-OWNED GAS UTILITY INDUSTRY
DISTRIBUTION COMPANIES, 1975-1981

	1975	1976 ^a	1977	1978	1979	1980	1981 ^a
Earnings							
Utility Operating Income as % of Total Plant	6.3	6.4	6.8	6.9	7.5	6.9	7.4
Utility Operating Income as % of Net Plant	8.4	8.7	9.2	9.6	10.4	9.7	10.7
Operating Revenue as % of Total Plant	69.5	81.8	95.1	103.3	115.7	127.6	146.1
Common Dividend Payout Ratio	71.6	68.6	68.7	66.7	67.8	77.7	64.0
Return on Common Equity	11.4	11.9	13.6	13.9	15.5	12.8	11.0
Return on Average Common Equity	13.5	11.9	13.8	14.3	16.1	13.1	11.7
Return on Net Plant	4.6	4.7	5.6	5.9	6.8	5.4	4.9
Pretax Interest Coverage of:							
Total Interest Expense	5.0	5.3	6.2	6.4	6.2	5.4	3.9
Long-Term Debt Interest Expense	5.6	5.8	6.8	7.3	7.4	7.0	5.8
Allowance for Funds Used During Construction as % of Net Income	2.5	2.0	0.8	0.7	1.0	1.8	6.0
Expenses							
Operating Expenses as % of Operating Revenue	91.1	92.3	92.9	93.4	93.6	94.7	95.1
Maintenance Expenses as % of Total Plant	1.9	2.0	2.3	2.2	2.3	2.3	2.7
Depreciation Expenses as % of Total Plant	2.9	2.9	3.1	3.1	3.1	3.1	3.1
Depreciation Expenses as % of Depreciable Plant	2.9	3.0	3.1	3.2	3.2	3.2 ^R	3.2
Total Taxes as % of Total Plant	7.8	8.2	9.8	10.4	10.4	10.3	8.9
Total Taxes as % of Net Plant	10.3	11.1	13.5	14.4	14.5	14.5	12.9
Total Taxes as % of Net Income plus Total Taxes	67.7	68.5	69.3	69.8	67.1	71.5	70.9
Current Federal Income Tax as % of Net Income plus current Federal Income Tax ^b	31.1	33.8	37.6	36.8	31.8	35.2	23.7
Plant							
Total Plant as % of Total Operating Revenue	143.9	122.2	105.1	96.8	86.4	78.3	68.4
Net Plant as % of Total Operating Revenue	109.0	90.6	76.8	69.7	61.8	55.7	47.5
Depreciation Reserve as % of Total Plant	24.3	25.8	26.9	28.0	28.5	28.9	30.6
Depreciation Reserve as % of Depreciable Plant	25.4	26.6	27.2	28.8	29.4	30.2 ^R	31.3
Total Plant per Employee (\$000)	166.6	173.7	181.2	189.7	200.1	210.3	186.1
Capitalization							
Long-term Debt as % of Net Plant	47.5	49.6	49.9	44.1	42.9	40.2	42.9
% Total Capitalization Represented by:							
a. Long-term Debt	51.2	52.1	50.0	48.1	46.9	45.8	46.6
b. Preferred Stock	5.5	5.5	4.9	5.6	5.7	6.0	5.1
c. Common Equity	43.3	42.4	45.2	46.3	47.7	48.2	48.3
% Current Year Financing of Construction Expenditures Represented by:							
a. Internal Sources	54.0	59.1	81.5	71.0	61.3	44.9	49.2
b. Equity Issues	14.3	7.2	1.1	5.3	18.1	0.5	12.8
c. Debt Issues	31.7	33.7	17.3	23.6	20.6	54.6	38.0

a. Data not directly comparable to previous years due to company reclassification.

b. Includes "Investment Tax Credit Adjustment."

R—Revised.

ANALYTICAL RATIOS

TABLE 147
SELECTED COMPOSITE ANALYTICAL RATIOS
INVESTOR-OWNED GAS UTILITY INDUSTRY
TRANSMISSION COMPANIES, 1955-1981

	1955	1960	1965	1970 ^a	1975	1980	1981
Earnings							
Utility Operating Income as % of Total Plant	5.6	5.6	4.9	5.3	6.8	7.3	7.1
Utility Operating Income as % of Net Plant	7.0	7.3	7.0	7.8	11.7	13.8	13.7
Operating Revenue as % of Total Plant	31.9	35.6	35.5	36.2	58.5	136.6	151.6
Common Dividend Payout Ratio	65.4	64.8	75.9	72.5	50.9 ^b	52.1 ^b	53.6 ^b
Return on Common Equity	13.9	12.1	12.1	11.7	14.9 ^b	16.8 ^b	17.7 ^b
Return on Average Common Equity	14.9	12.7	12.3	12.1	15.8	17.8	19.1
Return on Net Plant	4.3	4.1	4.2	4.4	10.1	14.8	16.8
Pretax Coverage of:							
Total Interest Expense	4.7	3.9	3.8	2.9	4.0	4.4	3.9
Long-Term Debt Interest Expense	5.0	4.3	4.1	3.3	4.5	5.9	5.4
Allowance for Funds Used During Construction of % of Net Income	4.0	3.5	4.8	4.3	3.0	5.1	5.2
Expenses							
Operating Expenses as % of Operating Revenue	82.8	84.6	86.5	85.8	88.8	95.0	95.6
Maintenance Expenses as % of Total Plant	0.8	0.7	0.7	0.7	0.9	1.3	1.5
Depreciation Expenses as % of Total Plant	3.1	3.2	3.1	3.1	4.4	4.1	4.4
Depreciation Expenses as % of Depreciable Plant	c	c	c	c	4.4	4.5 ^R	4.6
Total Taxes as % of Total Plant	3.7	3.6	3.1	2.3	5.0	6.0	5.5
Total Taxes as % of Net Plant	4.9 ^b	4.6	4.4	3.4	8.6	11.4	10.6
Total Taxes as % of Net Income plus Total Taxes	49.0	50.2	48.4	40.0	44.6 ^b	42.0 ^b	37.4 ^b
Current Federal Income Tax as % of Net Income plus current Federal Income Tax ^d	41.2	34.0	35.9	26.2	35.6 ^b	26.9 ^b	20.9 ^b
Plant							
Total Plant as % of Total Operating Revenue	313.6	280.9	281.4	276.0	171.0	73.2	66.0
Net Plant as % of Total Operating Revenue	254.1	216.9	198.9	186.4	96.5	38.5	34.1
Depreciation Reserve as % of Total Plant	19.0	22.8	29.3	32.5	42.4	47.3	48.3
Depreciation Reserve as % of Depreciable Plant	c	c	c	c	43.8	52.3 ^R	51.3
Total Plant per Employee (\$000)	c	285.4	388.7	505.0	547.1	673.3	710.3
Capitalization							
Long-term Debt as % of Net Plant	65.2	63.4	61.8	62.1	71.8	64.1	70.2
% Total Capitalization Represented by:							
a. Long-term Debt	62.1	59.6	58.8	57.1	48.6	39.4	39.8
b. Preferred Stock	8.3	8.7	8.4	8.5	5.8	6.7	6.2
c. Common Equity	29.7	31.8	32.9	34.4	45.5	53.9	54.0
% Current Year Financing of Construction							
Expenditures Represented by:							
a. Internal Sources	c	c	c	c	55.4	65.1	60.0
b. Equity Issues	c	c	c	c	2.7	6.0	10.7
c. Debt Issues	c	c	c	c	40.9	28.9	29.3

a. Data for 1970 and prior years not directly comparable to subsequent years due to reclassification of several companies from Integrated to Transmission. For definitions to companies, refer to Glossary.

b. Not comparable with prior years due to a 1973 Federal Power Commission ruling requiring adoption of the equity method in reporting earnings of subsidiaries.

c. Not available.

d. Includes "Investment Tax Credit Adjustment." Prior to 1956, also includes "Provision for Deferred Federal Income Taxes" and "Portion of Current Federal Income Taxes Provided For in Prior Years."

R—Revised

GAS FACTS

TABLE 148
SELECTED COMPOSITE ANALYTICAL RATIOS
INVESTOR-OWNED GAS UTILITY INDUSTRY
INTEGRATED COMPANIES, 1975-1981

	1975	1976 ^a	1977	1978	1979	1980	1981 ^a
Earnings							
Utility Operating Income as % of Total Plant	6.4	5.6	6.3	5.9	5.6	5.8	6.3
Utility Operating Income as % of Net Plant	9.6	8.5	9.6	9.1	8.6	9.1	9.6
Operating Revenue as % of Total Plant	63.5	71.2	82.5	89.0	106.5	129.0	130.7
Common Dividend Payout Ratio	60.6	74.4	57.2	64.7	50.8	52.3	57.2
Return on Common Equity	13.9	12.9	13.8	12.0	15.2	15.6	16.1
Return on Average Common Equity	14.3	13.2	14.2	12.3	15.8	15.7	17.0
Return on Net Plant	7.6	7.2	7.9	6.9	8.7	9.4	9.1
Pretax Coverage of:							
Total Interest Expense	4.2	4.3	4.7	4.4	4.6	4.2	4.7
Long-Term Debt Interest Expense	4.6	4.6	5.1	5.2	5.8	6.1	6.8
Allowance for Funds Used During Construction as % of Net Income	1.7	1.6	1.2	1.7	1.5	2.0	1.6
Expenses							
Operating Expenses as % of Operating Revenue	90.2	92.2	92.6	93.6	94.9	95.7	95.3
Maintenance Expenses as % of Total Plant	1.4	1.6	1.8	1.8	2.0	2.0	2.2
Depreciation Expenses as % of Total Plant	3.1	3.1	3.1	3.2	3.4	3.6	3.5
Depreciation Expenses as % of Depreciable Plant	3.2	3.3	3.2	3.5	3.7	4.3 ^R	3.7
Total Taxes as % of Total Plant	5.3	5.8	6.1	5.9	6.3	6.5	8.3
Total Taxes as % of Net Plant	7.9	8.9	9.3	9.2	9.7	10.1	12.5
Total Taxes as % of Net Income plus Total Taxes	50.2	54.1	52.6	55.6	51.5	50.8	56.9
Current Federal Income Tax as % of Net Income plus current Federal Income Tax ^b	27.3	31.2	29.6	27.6	7.0	27.0	22.7
Plant							
Total Plant as % of Total-Operating Revenue	157.4	145.8	121.2	112.4	93.9	77.5	76.5
Net Plant as % of Total Operating Revenue	105.2	95.9	79.5	72.7	61.1	49.9	50.6
Depreciation Reserve as % of Total Plant	33.2	34.2	34.4	35.3	34.9	35.7	33.9
Depreciation Reserve as % of Depreciable Plant	35.9	36.5	35.0	38.2	38.1	42.7 ^R	36.2
Total Plant per Employee (\$000)	197.8	209.5	211.4	223.7	239.4	250.9	271.3
Capitalization							
Long-term Debt as % of Net Plant	60.5	59.8	56.4	52.2	52.0	55.5	48.3
% Total Capitalization Represented by:							
a. Long-term Debt	51.1	50.2	47.9	45.4	45.4	46.2	44.1
b. Preferred Stock	2.9	2.6	3.6	4.4	4.4	3.9	4.4
c. Common Equity	46.0	47.2	48.5	50.2	50.1	49.9	51.5
% Current Year Financing of Construction							
Expenditures Represented by:							
a. Internal Sources	59.7	45.9	66.3	63.4	74.9	62.0	64.7
b. Equity Issues	8.7	28.0	7.2	2.9	1.3	2.6	7.8
c. Debt Issues	31.6	26.1	26.5	33.7	23.8	35.4	27.5

a. Data not directly comparable to previous years due to company reclassification.

b. Includes "Investment Tax Credit Adjustment."

R—Revised.

ANALYTICAL RATIOS

TABLE 149
SELECTED COMPOSITE ANALYTICAL RATIOS
INVESTOR-OWNED GAS UTILITY INDUSTRY
COMBINATION COMPANIES, 1975-1981

	1975	1976	1977	1978	1979	1980	1981
Gas Operations							
Earnings							
Utility Operating Income as % of Total Plant	6.3	6.5	5.7	6.2	7.1 ^R	7.4	7.4
Utility Operating Income as % of Net Plant	8.4	8.8	8.0	8.7	10.3 ^R	10.7	10.8
Operating Revenue as % of Total Plant	60.4	71.8	78.2	84.6	95.3	108.4	117.3
Common Dividend Payout Ratio	61.0	47.5	64.5	52.5	52.4	59.0	64.3
Return on Common Equity	11.3	15.6	11.8	11.6	14.4	15.5	14.8
Return on Average Common Equity	12.1	15.9	12.1	13.2	15.2	16.0	15.3
Return on Net Plant	4.1	5.6	4.4	4.1	5.4	5.8	5.6
Pretax Interest Coverage:							
Total Interest Expense	4.2	5.3	4.8	5.0	5.5	4.6	4.4
Long-Term Debt Interest Expense	4.5	5.5	5.0	5.3	5.9	5.4	5.3
Allowance for Funds Used During Construction as % of Net Income	21.1	16.6	14.6	20.1	20.7	29.3	32.6
Expenses							
Operating Expenses as % of Operating Revenue	90.9	91.0	92.7	92.7	93.8	94.5	95.0
Maintenance Expenses as % of Total Plant	2.0	2.1	2.3	2.2	2.3	2.3	2.5
Depreciation Expenses as % of Total Plant	2.9	3.0	3.1	3.1	3.1	3.1	3.1
Depreciation Expenses as % of Depreciable Plant	3.0	3.1	3.1	3.1	3.1	3.6	3.2
Total Taxes as % of Total Plant	5.3	6.8	6.5	7.1	7.0	6.9	7.4
Total Taxes as % of Net Plant	7.1	9.4	9.0	10.9	10.0	10.1	10.8
Total Taxes as % of Net Income plus Total Taxes	58.8	58.8	62.8	59.7	61.2	59.3	61.6
Current Federal Income Tax as % of Net Income plus current Federal Income Tax ^a	10.8	27.5	17.8	27.7	26.9	15.5	21.7
Plant							
Total Plant as % of Total Operating Revenue	165.6	139.3	127.8	118.2	104.9	92.3	85.3
Net Plant as % of Total Operating Revenue	123.3	101.8	91.3	83.5	73.1	63.7	58.5
Depreciation Reserve as % of Total Plant	25.5	26.9	28.6	29.4	30.4	30.9	31.4
Depreciation Reserve as % of Depreciable Plant	27.3	27.9	28.9	29.9	31.0	36.2 ^R	32.6
Total Plant per Employee (\$000)	181.8	193.3	200.5	212.0	215.6	230.5	253.3
All Operations							
Earnings							
Utility Operating Income as % of Total Plant	6.1	6.3	6.3	6.3	6.3	6.5	7.1
Utility Operating Income as % of Net Plant	7.8	8.0	8.0	8.1	8.1	8.4	9.2
Operating Revenue as % of Total Plant	31.6	33.3	35.5	35.5	36.7	39.9	42.5
Common Dividend Payout Ratio	66.9	64.7	66.1	68.6	72.6	75.9	73.3
Return on Common Equity	10.2	10.8	10.7	10.7	10.7	10.8	11.7
Return on Average Common Equity	10.0	10.5	11.1	11.1	11.4	11.3 ^R	12.3
Return on Net Plant	3.5	3.8	3.9	4.0	4.0	4.0	4.4
Pretax Interest Coverage of:							
Total Interest Expense	3.7	4.0	4.1	4.1	3.8	3.5	3.5
Long-Term Debt Interest Expense	3.9	4.2	4.3	4.3	4.1	4.1	4.2
Allowance for Funds Used During Construction as % of Net Income	25.0	23.2	25.4	26.9	33.1	37.6	37.2
Expenses							
Operating Expenses as % of Operating Revenue	83.3	83.9	85.0	85.2	86.3	87.2	86.9
Maintenance Expenses as % of Total Plant	1.7	1.7	1.9	1.9	2.1	2.1	2.1
Depreciation Expenses as % of Total Plant	2.4	2.4	2.4	2.3	2.4	2.4	2.4
Depreciation Expenses as % of Depreciable Plant	2.6	3.0	3.0	3.2	3.3	3.4 ^R	3.1
Total Taxes as % of Total Plant	4.2	4.6	4.7	4.7	4.3	4.3	4.7
Total Taxes as % of Net Plant	5.3	5.9	6.0	6.0	5.6	5.6	6.1
Total Taxes as % of Net Income plus Total Taxes	54.7	55.2	55.4	55.2	53.4	53.3	53.5
Current Federal Income Tax as % of Net Income plus current Federal Income Tax ^a	15.6	20.4	21.4	21.4	15.6	16.8	20.8
Plant							
Total Plant as % of Total Operating Revenue	316.4	300.5	281.8	281.6	272.3	250.9	235.4
Net Plant as % of Total Operating Revenue	249.8	235.9	220.1	218.7	211.2	194.3	181.4
Depreciation Reserve as % of Total Plant	21.0	21.5	21.9	22.3	22.4	22.6	22.9
Depreciation Reserve as % of Depreciable Plant	23.0	26.5	26.8	26.6	26.8	32.3 ^R	29.9
Capitalization							
Long-term Debt as % of Net Plant	50.6	49.2	48.2	47.2	46.3	45.7	44.6
% Total Capitalization represented by:							
a. Long-term Debt	51.4	50.1	49.3	48.6	48.4	48.0	47.5
b. Preferred Stock	13.4	13.6	13.6	13.4	13.3	13.3	12.9
c. Common Equity	35.2	36.3	37.2	38.0	38.3	38.7	39.6
% Current Year Financing of Construction							
Expenditures Represented by:							
a. Internal Sources	45.9	48.4	57.3	50.0	24.7	32.5	41.3
b. Equity Issues	28.0	26.8	31.5	23.9	3.0	35.9	23.7
c. Debt Issues	26.1	24.8	11.2	26.1	72.3	31.6	35.0

a. Includes "Investment Tax Credit Adjustment."
R—Revised.

GAS FACTS

TABLE 150
SELECTED ANALYTICAL RATIOS RELATING TO INVESTOR-OWNED GAS UTILITY INDUSTRY
OPERATING AND MAINTENANCE EXPENSES, 1970-1981^a

OPERATING AND MAINTENANCE EXPENSES, 1970-1981										
Type of Activity	Total Operating and Maintenance Expense per Therm of Sales (cents)					Total Operating Revenue per Therm of Sales (cents)				
	1970	1975	1979	1980	1981	1970	1975	1979	1980	1981
Natural Gas Distribution ^b	5.85	11.53	23.10	29.44	35.95	8.46	15.12	27.97	34.70	42.03
Natural Gas Transmission	2.44	6.07	16.03	22.09	27.10	3.45	8.35	18.99	24.43	30.41
Total Cost of Purchases as Percent of Total Operating and Maintenance Expense (%)										
Type of Activity	1970	1975	1979	1980	1981	1970	1975	1979	1980	1981
Natural Gas Distribution ^b	1,423.97	1,904.73	2,703.18	3,604.37	3,044.25	69.30	77.74	84.19	84.43	85.85
Natural Gas Transmission	2,398.21	2,398.21	9,396.77	12,782.10	15,196.42	69.00	86.09	88.35	89.89	90.36
Total Payroll as Percent of Total Operating and Maintenance Expense (%)										
Type of Activity	1970	1975	1979	1980	1981	1970	1975	1979	1980	1981
Natural Gas Distribution ^b	8.06	13.90	10.40	21.24	25.37	19.18	14.97	10.44	9.35	8.74
Natural Gas Transmission						7.41	5.99	3.75	3.24	2.83
Gross Sales Expense per Customer (dollars)										
Type of Activity	1970	1975	1979	1980	1981					
Straight Natural Gas Distribution	6.56	2.90	2.80	2.88	3.57					
Combination Natural Gas Distribution	4.01	1.16	0.53	0.53	0.53					

a. Integrated companies excluded.

b. Includes both straight gas and combination companies.

SECTION XII

FINANCE

PART 5. CONSTRUCTION EXPENDITURES

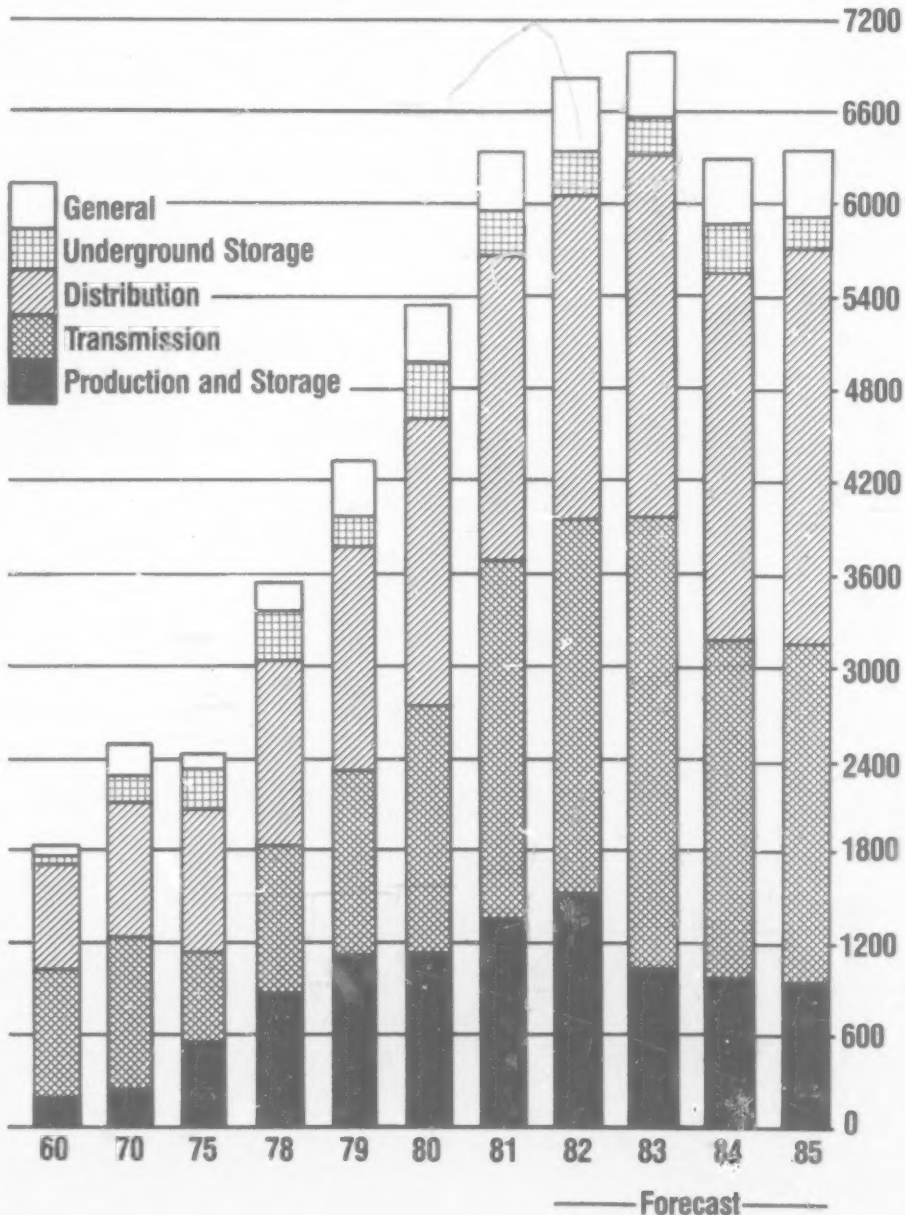
	1981	% Change 81/80
Construction Expenditures		
(Millions)		
Total	\$6,389	+19.4
Production & Storage	1,346	+17.0
Transmission	2,352	+48.6
Underground Storage	326	-17.7
Distribution	1,955	+ 4.6
General	410	+16.5

GAS FACTS

CHART 23

GAS UTILITY INDUSTRY CONSTRUCTION EXPENDITURES

MILLIONS OF DOLLARS



REFERENCE: TABLE 151

CONSTRUCTION EXPENDITURES

TABLE 151
GAS UTILITY INDUSTRY CONSTRUCTION EXPENDITURES,
BY TYPE OF FACILITY, 1955-1985*

(Millions)

Year	Total	Production and Storage	Transmission	Underground Storage	Distribution	General
1955	\$1,345	\$ 138	\$ 593	\$ 60	\$ 500	\$ 54
1956	1,552	188	704	50	534	76
1957	1,772	281	753	68	593	77
1958	1,618	218	715	73	541	71
1959	1,728	227	694	79	643	85
1960	1,845	157	848	59	696	85
1961	1,662	172	654	55	687	94
1962	1,673	177	613	53	708	122
1963	1,558	138	461	106	752	101
1964	1,701	120	616	84	784	97
1965	1,935	156	770	69	824	116
1966	2,374	182	1,038	151	869	134
1967	2,252	186	1,006	91	848	121
1968	2,972	259	1,577	88	913	135
1969	2,686	83	1,511	128	863	101
1970	2,507	203	1,019	167	913	205
1971	2,419	340	842	171	888	178
1972	2,822	717	678	177	1,081	169
1973	2,966	771	746	201	1,094	155
1974	2,965	830	632	230	1,097	176
1975	2,466	555	590	276	910	136
1976	2,425	466	531	362	926	140
1977	2,833	620	670	323	1,048	172
1978	3,581	881	935	321	1,228	215
1979	4,366	1,125	1,226	281	1,448	286
1980	5,350	1,150	1,583	396	1,869	352
1981	6,389	1,346	2,352	326	1,955	410
1982 (forecast)	6,816	1,520	2,417	297	2,117	465
1983 (forecast)	6,996	1,045	2,895	272	2,362	422
1984 (forecast)	6,281	974	2,144	302	2,447	414
1985 (forecast)	6,325	951	2,201	226	2,539	408

*For companies not reporting 1984 and 1985 forecasts, data extrapolated from earlier years.

GAS FACTS

TABLE 152
GAS UTILITY INDUSTRY CONSTRUCTION EXPENDITURES,
BY TYPE OF FACILITY, 1976-1981

	1976	1977	1978	1979	1980	1981
Production and Storage	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
SNG Plant	8.1	2.1	8.6	0.6	3.1	2.3
LNG Plant	0.2	a	a	a	0.1	0.1
Propane Plant	0.2	1.5	0.8	2.2	2.3	3.0
Exploration and Drilling	28.6	28.2	21.8	29.1	18.2	18.7
Other ^b	48.5	55.7	62.1	64.1	72.3	71.1
LNG Storage	13.6	11.9	4.1	2.6	1.3	0.2
Other Storage	0.6	0.6	2.6	1.4	2.6	4.6
LNG Ships	c	a	a	0.0	0.0	0.0
Transmission	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
New and Replacement Pipe	71.2	74.2	77.6	68.7	70.4	79.6
Compressor Stations	18.6	21.6	16.4	26.0	20.1	13.8
Other	10.2	4.2	6.0	5.2	9.6	6.6
Distribution	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
New and Replacement Pipe	86.2	80.3	88.1	88.7	86.2	85.8
Compressor Stations	0.1	5.2	a	1.4	4.1	4.5
Other	13.7	14.5	11.9	9.9	9.7	9.7

a. Less than 0.1 percent.

b. Includes gathering.

c. Data not available prior to 1977.

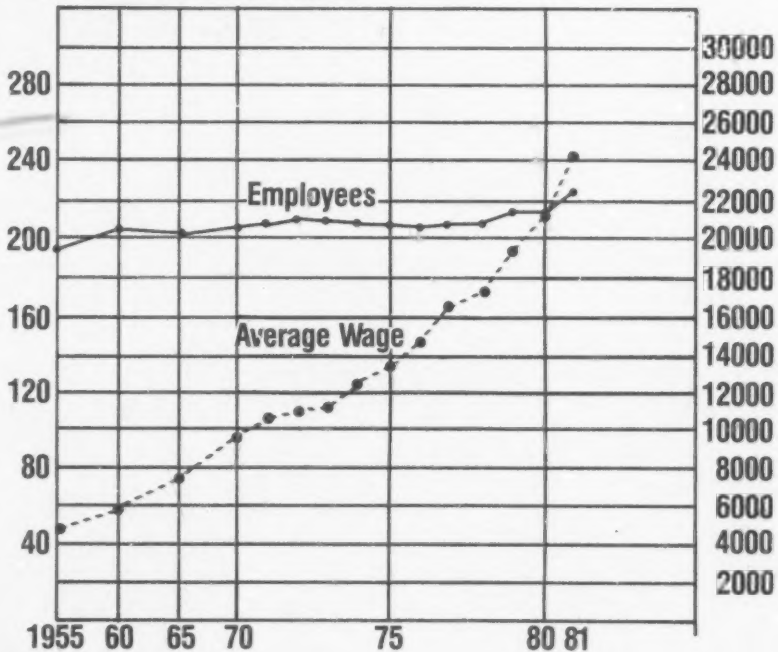
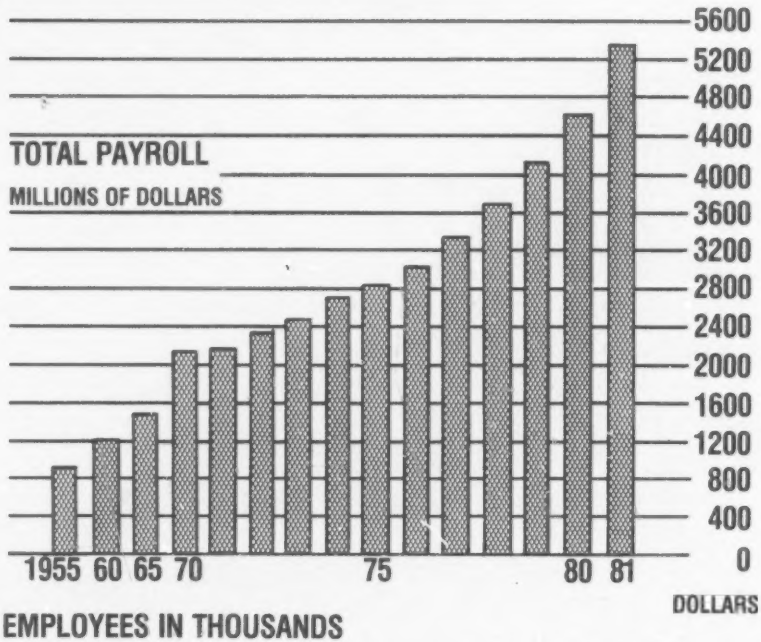
SECTION XIII PERSONNEL DATA

	<u>1981</u>	<u>% Change 81/80</u>
Gas Utility Employees		
(Thousands)		
Total	222.0	+ 3.1
Distribution	39.2	-24.8
Transmission	47.2	+ 4.4
Integrated	72.0	+35.3
Combination	50.8	- 2.7
Municipals	12.8	+ 0.8

GAS FACTS

CHART 24

GAS UTILITY INDUSTRY PAYROLL, EMPLOYEES AND AVERAGE WAGE



REFERENCE: TABLE 153

PERSONNEL DATA

TABLE 153
GAS UTILITY INDUSTRY EMPLOYEES AND PAYROLL,
1955-1981

Year	Average Number of Employees (Thousands)	Total Payroll (Thousands)	Average Wage per Employee
1955	193.5	\$ 904,103	\$ 4,670
1956	201.0	984,472	4,900
1957	201.6	1,034,003	5,130
1958	202.5	1,096,553	5,420
1959	204.9	1,166,156	5,690
1960	206.4	1,214,565	5,880
1961	206.1	1,268,437	6,150
1962	204.4	1,316,057	6,440
1963	204.5	1,377,729	6,740
1964	204.8	1,420,754	6,940
1965	205.7	1,480,397	7,200
1966	207.4	1,556,577	7,500
1967	207.2	1,640,397	7,920
1968	208.6	1,759,784	8,440
1969	210.2	1,890,490	8,990
1970	211.7	2,021,197	9,550
1971	213.7	2,142,892	10,028
1972	215.4	2,321,932	10,780
1973	215.2	2,449,075	11,381
1974	213.4	2,606,903	12,216
1975	207.6	2,817,150	13,570
1976	205.1	3,044,605	14,844
1977	208.8	3,371,856	16,149
1978	209.8	3,647,057	17,383
1979	214.6	4,134,270	19,265
1980	215.4	4,612,791	21,415
1981	222.0	5,339,759	24,057

GAS FACTS

TABLE 154
GAS UTILITY INDUSTRY EMPLOYEES AND PAYROLL BY TYPE
OF PAYROLL AND TYPE OF COMPANY, 1955-1981

	(Thousands)						
	1955	1960	1965	1970	1975	1980	1981
Total							
Employees	193.5	206.4	205.7	211.7	207.6	215.4	222.0
Payroll—Total	\$904,103	\$1,214,565	\$1,480,397	\$2,021,197	\$2,817,150	\$4,612,791	\$5,339,759
Operating	683,767	914,438	1,146,226	1,606,321	2,292,448	3,652,941	4,168,523
Construction	160,180	209,082	262,792	325,546	380,835	627,706	777,825
Miscellaneous	60,156	62,045	71,379	89,330	143,867	332,144	393,411
Investor Owned—Total							
Employees	*	*	*	*	196.3	202.7	209.2
Payroll—Total	*	*	*	*	\$2,675,092	\$4,379,653	\$5,075,465
Operating	*	*	*	*	2,184,446	3,463,437	3,949,859
Construction	*	*	*	*	357,221	594,326	742,500
Miscellaneous	*	*	*	*	133,425	321,890	383,106
Distribution							
Employees	*	*	*	*	51.3	52.1	39.2 ^a
Payroll—Total	*	*	*	*	\$697,552	\$1,040,436	\$ 814,197
Operating	*	*	*	*	\$67,947	831,076	669,314
Construction	*	*	*	*	98,257	152,964	111,590
Miscellaneous	*	*	*	*	31,348	56,396	33,293
Transmission							
Employees	*	31.4	29.6	32.4	37.2	45.2	47.2
Payroll—Total	*	\$199,701	\$228,491	\$331,955	\$574,275	\$1,178,706	\$1,376,146
Operating	*	166,064	187,521	266,685	470,418	873,199	1,025,032
Construction	*	21,955	30,650	44,869	53,832	108,974	133,289
Miscellaneous	*	11,682	10,322	20,401	50,025	196,533	217,825
Integrated							
Employees	*	*	*	*	55.4	53.2	72.0 ^a
Payroll—Total	*	*	*	*	\$676,967	\$1,061,520	\$1,585,958
Operating	*	*	*	*	548,291	873,837	1,273,414
Construction	*	*	*	*	91,439	138,662	202,049
Miscellaneous	*	*	*	*	37,237	49,621	110,495
Combination							
Employees	*	*	*	*	52.4	52.2	50.8
Payroll—Total	*	*	*	*	\$726,298	\$1,098,991	\$1,299,164
Operating	*	*	*	*	597,790	885,325	982,099
Construction	*	*	*	*	113,693	194,326	295,572
Miscellaneous	*	*	*	*	14,815	19,340	21,493

a. Data not directly comparable to previous years due to reclassification of several companies.

*Not available.

PERSONNEL DATA

TABLE 155
EMPLOYEE ACCIDENT INCIDENT AND SEVERITY
RATES OF SELECTED INDUSTRIES, 1980^a

	Rate	
	Incident	Severity
Gas Utilities^b	2.85	13.33
All Industries	2.79	17.56
Agricultural Chemicals	1.04	19.23
Aircraft	0.86	18.60
Air Transportation	7.09	11.71
Bituminous Coal	2.81	23.13
Cement	2.77	25.27
Chemical	0.69	20.29
Communications	0.86	16.28
Construction	4.29	15.85
Electric, Electronic Equipment	1.13	20.35
Electric Service	2.15	20.93
Fabricated Metal Products	2.97	17.51
Food	4.19	18.62
Furniture and Fixtures	1.82	21.98
General Government	7.20	15.00
Iron and Steel Foundries	4.83	15.73
Leather	2.72	17.28
Lumber and Wood Products	6.06	26.57
Machinery, excluding Electrical	2.71	21.40
Meat Products	8.47	15.47
Metal Mining	2.41	33.61
Motor Vehicles	1.97	18.78
Nonferrous Rolling, Drawing	2.54	24.41
Nonmetallic Minerals	3.89	29.05
Oil and Gas Extraction	1.49	32.89
Paper	3.52	26.42
Petroleum and Coal Products	1.23	21.95
Pipeline Transportation	1.46	23.97
Primary Nonferrous Metals	1.89	28.04
Printing and Publishing	4.41	19.27
Railroad Equipment	7.67	28.42
Railroad Transportation	6.50	16.92
Rubber and Plastics	2.66	17.29
Services	3.78	13.23
Ship and Boat Building	5.40	13.33
Steel	2.19	26.48
Stone, Clay and Glass	4.94	19.43
Textile	1.11	26.13
Transit	4.45	14.83
Trucking	17.65	13.99
Water Transportation	2.28	43.86
Wholesale and Retail Trade	2.82	19.15

a. Incident rate is the number of disabling injuries per 100 full-time employees. Severity rate is average lost workdays per injury.

b. Gas figures derived from National Safety Council data.

Source: National Safety Council, *Work Injury and Illness Rates*, 1981.

TABLE 156
DEATH RATES OF WORKERS, BY MAJOR INDUSTRIES, 1980

	Deaths	
	Total	Per 100,000 Workers
All Industries	13,000	13
Agriculture	2,000	61
Construction	2,500	45
Government	1,700	11
Manufacturing	1,600	8
Mining, Quarrying, Oil and Gas Wells	500	50
Service	1,800	7
Trade	1,400	6
Transportation and Public Utilities	1,500	28
Gas*	8	5

*Included in Transportation and Public Utilities. Data derived from A.G.A. "Report of Occupational Injuries and Illnesses in the Gas Utility and Transmission Industry in the United States," and does not represent total industry.

Source: National Safety Council; *Accident Facts*, 1981; gas figures derived from A.G.A. data.

GAS FACTS

TABLE 157
EMPLOYEE DISABLING INJURY RATES, BY TYPE OF GAS UTILITY, 1955-1981

Z16.1 DATA									
Year	All Reporting Gas Utilities			Natural Gas Distribution and Integrated Companies			Natural Gas Transmission Companies		
	Reporting Companies	Average Employees	Rate ^b	Frequency ^c	Severity ^d	Rate	Frequency ^e	Severity ^d	Rate
1955	392	180,822	10.17	9.91	694	466	9.97	1,549	e
1960	554	195,591	7.01	7.45	563	616	5.83	332	e
1961	581	192,287	6.57	6.73	481	396	5.85	868	e
1962	579	194,615	6.41	6.69	490	467	5.81	630	e
1963	581	196,376	6.27	6.47	546	439	5.37	1,020	e
1964	600	197,023	5.87	5.96	465	416	5.17	644	e
1965	625	198,815	5.69	5.93	402	314	4.34	753	e
1966	674	200,600	5.85	6.10	623	451	4.55	1,382	e
1967	642	202,427	5.69	6.07	454	376	4.32	814	e
1968	652	199,442	6.06	6.48	533	478	4.25	799	e
1969	703	204,771	6.16	6.54	525	500	4.37	589	e
1970	719	200,493	6.34	6.66	548	522	5.02	686	e
1971	833	210,589	7.15	7.48	473	444	5.70	634	e
1972	736	205,371	8.38	8.96	535	495	5.88	762	e
1973	708	207,423	8.18	8.77 ^f	547	373 ^f	5.67	1,287	e
1974	644	208,283	9.08	9.75 ^g	357	362 ^g	6.12	333	e
1975	515	193,957	9.27	9.98 ^h	570	518 ^h	6.37	785	e
1976	407	153,538	11.17	12.87 ⁱ	365	403 ⁱ	5.31	236	e
OSHA DATA									
Year	All Reporting Gas Utilities			Natural Gas Distribution and Integrated Companies			Natural Gas Transmission Companies		
	Reporting Companies	Average Employees	Rate	Incident ^h	Severity ^j	Rate	Incident ^h	Severity ^j	Rate
1976	411	223,240	2.38	3.27	20.00	18.78	1.08	39.24	19.63
1977	433	243,773	2.46	3.31	18.01	15.86	1.09	20.63	20.54
1978	423	236,661	2.46	3.41	17.11	14.86	1.10	22.51	18.90
1979	443	256,797	2.52	3.57	16.76	15.01	1.16	24.71	17.81
1980	453	262,173	2.62	3.45	18.20	14.28	1.15	32.17	21.34
1981	437	278,402	2.52	3.43	25.09	17.08	1.09	26.34	37.53

a. Included in "Natural Gas Distribution" and "Integrated Companies" under Z16.1 data.

b. Includes "Manufactured and Mixed Gas" and "Liquefied Petroleum Gas."

c. Frequency Rate is number of disabling injuries per million man-hours worked for each injury resulting in a minimum of one day's loss of time.

d. Severity Rate is number of days lost due to disabling injuries, per million man-hours worked.

e. Not available under Z16.1 data.

f. Includes "Manufactured and Mixed Gas."

g. Includes "Manufactured and Mixed Gas" and "Liquefied Petroleum Gas."

h. Incident Rate is total injuries per 100 full-time employees.

i. Severity Rate is average lost workdays per injury.

NOTE: Companies are now required to report under the Occupational Safety and Health Act (OSHA) instead of ANST Standard Z16.1.

Source: A.G.A. Disabling Injury Experience, 1981.

APPENDIX A

GLOSSARY

(This is an abbreviated list of gas utility industry definitions. A complete list is contained in the *Glossary for the Gas Industry*).

Accident Frequency Rate: See Injury Frequency Rate, Disabling.

Accident Incident Rate: See Injury Incident Rate.

Accident Severity Rate: See Injury Severity Rate, Disabling.

Additions (To Utility Plant):

Gross Additions: Cost of construction, generally including overhead and allowance for funds used during construction (interest during construction), cost of land, land rights, and mineral interests, gas capitalized in underground storage, used facilities acquired, and the purchase cost of an acquired operating unit or system of utility plant. See Construction Expenditures.

Net Additions: Gross additions less retirements and adjustments of utility plant. It is the net change in utility plant between two dates.

Anthracite: A hard coal containing little volatile matter, low ash and generally having a heating value of 11,000-15,000 Btu/lb.

Associated Natural Gas: See Gas, Natural.

Associated Number of Customers: See Customers, Average Number of.

Average Revenue Per Unit of Gas Sales (By Class of Service): Revenue from the sale of gas to a class of service, exclusive of forfeited discounts and penalties, divided by the corresponding number of units sold. Units may be therms, Btu's or cubic feet.

Barrel (Oil): A volumetric unit of measurement equivalent to 42 U.S. Standard gallons.

Bituminous Coal: Ranking of soft coal generally having a heating value of 11,000-14,000 Btu/lb., high in volatile matter and ash.

Blue Gas: See Water Gas.

Boiler Fuel Gas: Natural gas used as a fuel for the generation of steam (or hot water).

Bottled Gas: In the industry, liquefied petroleum gas contained under moderate pressure in cylinders, sometimes referred to as bottles. Usually propane and/or butane.

British Thermal Unit (Btu): The quantity of heat that must be added to one pound of water to raise its temperature one degree Fahrenheit from 58.5 to 59.5 degrees Fahrenheit under standard pressure of 30 inches of mercury.

GAS FACTS

By-Products (Residuals): Secondary products which are obtained from the processing of a raw material and have commercial value. They may be the residues of the gas production process, such as coke, tar, and ammonia, or they may be the result of further processing of such residues, such as ammonium sulphate.

Capacity, Effective: The maximum load which a machine, apparatus, device, plant or system is capable of carrying under existing service conditions.

Carbon Black: Almost pure amorphous carbon consisting of extremely fine particles, usually produced from gaseous or liquid hydrocarbons by controlled combustion with a restricted air supply or by thermal decomposition.

Casinghead Gas: Unprocessed natural gas containing gasoline vapors produced from a reservoir containing oil.

City Gate (Town Border Station): See Gate Station.

Class of Service: Defines the type of customer. The common classes of service applied to ultimate consumers, and considerably more completely described in the A.G.A. publication "Definitions of a Gas Customer and Classes of Service for Industry Reporting Purposes" are:

1. Residential Service

Covers service to customers for domestic purposes (single, multifamily or mobile homes, etc.). In residential service, the number of housing units within a structure determines the customer classification.

2. Commercial Service

Covers service to customers engaged in wholesale or retail trade, agriculture, communications, finance, fisheries, forestry, government, insurance, real estate, transportation, etc., and to customers not directly involved in other classes of service.

3. Industrial Service

Covers service to customers engaged primarily in a process which either involves the extraction of raw materials from the earth, or a change of raw or unfinished materials into another form or product.

4. Other Services

Service to municipalities or divisions (agencies) of State or Federal Governments under special contracts or agreements or service classifications, which are applicable only to public authorities using gas for general or institutional purposes. (Exclude sales properly included under items 2 or 3 above, such as manufacturing arsenals or publicly-owned power systems).

5. Sales for Resale (Uniform System of Accounts, 483)

Service to other utility companies, governmental agencies (municipal, county, state or federal), rural cooperatives, etc., for distribution and resale to ultimate customers. Service to other utilities for use by them and not for distribution and resale, is to be classified as residential, commercial, or industrial, depending upon the primary business or economic activity.

Coal Gas: Manufactured gas made by distillation or carbonization of coal in a closed coal gas retort, coke oven, or other vessel.

Combination Utility: Utility which supplies both gas and some other utility service (electricity, water, etc.). For purposes of A.G.A. statistics, a combination utility derives at least 5 percent but less than 95 percent of its total operating revenues from gas operations. See Appendix C for a list of combination companies.

Commercial Service: See Class of Service.

APPENDIX A

Communities (Served): A community is a contiguous built-up area, incorporated or unincorporated, commonly recognized as a separate entity. Any incorporated area and its adjacent built-up unincorporated area may be counted as only one community.

Compressor Horsepower: See Horsepower, Compressor.

Compressor Station: Any permanent combination of facilities which supplies the energy to move gas at increased pressure from fields, in transmission lines or into storage. For reporting to A.G.A. include field (other than temporary) line, and storage compressor stations of producing and transmission companies; distribution companies should include underground storage compressor stations and stations used for transporting gas between local distribution systems but not booster or pumping stations used within a local distribution system.

Condensate: The liquid resulting when a vapor is subjected to cooling and/or pressure reduction. Also, liquid hydrocarbons condensed from gas and oil wells. Compare Liquids, under Gas, Natural.

Construction Expenditures: Cost of construction, including overheads and allowance for funds used during construction, for additions to, renewals, and replacements of plant facilities, but excluding the purchase cost of an acquired operating unit or system of utility plant, accounting transfers and adjustments to utility plant, and cost to remove plant facilities from service.

Conversion to Natural Gas: Changing the gas service to ultimate customers from a fuel other than natural gas to natural gas, including adjustment of consumers' appliances to perform satisfactorily with natural gas. Natural gas does not necessarily mean straight natural gas; stabilizing the heat content of the sendout gas by diluent gases or enriching gases is not considered to change the basic character of natural gas. For the purpose of uniform reporting a company should be considered a natural gas company when 95 percent of the system has been converted.

Cubic Foot: The most common unit of measurement of gas volume. It is the amount of gas required to fill a volume of one cubic foot under stated conditions of temperature, pressure, and water vapor.

Current Gas: See Storage, Underground.

Cushion Gas: See Base Gas under Storage, Underground.

Customer: An individual, firm or organization which purchases service at one location under one rate classification, contract, or rate schedule. If service is supplied at more than one location or under more than one rate schedule, each location and rate schedule shall be counted as a separate customer unless the consumption at the several locations is combined before billing and billed on one rate schedule.

Customers, Average Number of: The average number of customers is determined by summing the customers for each of the periods involved and dividing by the number of periods. See Customer.

Customers, End of Year: The number of customers at December (or the last month of a fiscal year) including all billing cycles. See Customers, Average Number of.

GAS FACTS

Degree Day, Heating: A measure of the coldness of the weather experienced, based on the extent to which the daily mean temperature falls below a reference temperature, usually 65°F. For example, on a day when the mean outdoor dry-bulb temperature is 35°F., there would be 30 degree days experienced. A daily mean temperature usually represents the sum of the high and low readings divided by two.

Demand: The rate at which gas is delivered to or by a system, part of a system, or a piece of equipment, expressed in cubic feet or therms or multiples thereof, for a designated period of time called the demand interval. Compare Load.

Design Day: A 24-hour period of demand which is used as a basis for planning gas capacity requirements.

Design Day Availability: The amount of each type of gas arranged to be available on the design day and the maximum combination of such supplies. (in the case of purchased natural gas, the maximum day allocation, maximum day contract quantity, or FERC authorization).

Design Day Temperature: The mean temperature assumed for the Design Day.

Dissolved Natural Gas: See Gas, Natural.

Distribution Company, Gas: Company which obtains the major portion of its gas operating revenues from the operation of a retail gas distribution system, and which operates no transmission system other than incidental connections within its own system or to the system of another company. For purposes of A.G.A. statistics, a distribution company obtains at least 95 percent of its gas operating revenues from sales to ultimate customers and classifies at least 95 percent of mains (other than service pipe) as distribution. Compare Integrated Company, Gas; Transmission Company, Gas. See Appendix C for a list of Distribution Companies.

Distribution Mains: See System Type.

Distribution System, Gas: See System Type.

Dry Natural Gas: See Gas, Natural.

Enriching: Increasing the heat content of a gas by mixing with it a gas of higher Btu content.

Exchange Gas: Gas that is received from (or delivered to) another party in exchange for gas delivered to (or received from) such other party.

Extraneous Gas: See Storage, Underground.

Field Pipeline: See System Type.

APPENDIX A

Firm Service: Service offered to customers (regardless of Class of Services) under schedules or contracts which anticipate no interruptions. The period of service may be for only a specified part of the year as in Off-Peak Service. Certain firm service contracts may contain clauses which permit unexpected interruption in case the supply to residential customers is threatened during an emergency. Compare Interruptible Service; and Off-Peak Service.

Foreign Gas: See Storage, Underground.

Gallon: A unit of liquid measure. The U.S. gallon contains 231 cubic inches or 8.3359 pounds avoirdupois of distilled water at its maximum density and with the barometer at 30 inches.

Gas, Dry: See Gas, Natural.

Gas, Liquefied Petroleum (LPG): A gas containing certain specific hydrocarbons which are gaseous under normal atmospheric conditions, but can be liquefied under moderate pressure at normal temperatures. Propane and butane are the principal examples.

Gas, Manufactured: A gas obtained by destructive distillation of coal, or by the thermal decomposition of oil, or by the reaction of steam passing through a bed of heated coal or coke or catalyst beds. Examples are coal gases, coke oven gases, producer gas, blast furnace gas, blue (water) gas, carbureted water gas. Btu content varies widely.

Gas, Natural: A naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in porous geologic formations beneath the earth's surface, often in association with petroleum. The principal constituent is methane.

Associated: Free natural gas in immediate contact, but not in solution with crude oil in the reservoir.

Dissolved: Natural gas in solution in crude oil in the reservoir.

Dry: Gas whose water content has been reduced by a dehydration process. Gas containing little or no hydrocarbons commercially recoverable as liquid product. Specified small quantities of liquids are permitted by varying statutory definition in certain states.

Liquefied (LNG): Natural gas which has been liquefied by reducing its temperature to minus 260°F at atmospheric pressure. It remains a liquid at -116°F and 673 psig. In volume it occupies 1/600 of that of the vapor.

Liquids: Those liquid hydrocarbon mixtures which are gaseous at reservoir temperatures and pressures, but are recoverable by condensation or absorption. Natural gasoline and liquefied petroleum gases fall in this category.

Non-Associated: Free natural gas not in contact with, nor dissolved in, crude oil in the reservoir.

Sour: Gas found in its natural state, containing such amount of compounds of sulphur as to make it impractical to use, without purifying, because of its corrosive effect on piping and equipment.

Substitute: A gas manufactured from carbonaceous material whose characteristics are substantially interchangeable with natural gas. The resultant gas is composed primarily of methane. At this writing, SNG feedstocks are the light hydrocarbons, propane, butane and the naphthas. Development is underway of processes for production from heavier feedstocks, coal, peat and solid wastes.

Sweet: Gas found in its natural state, containing such small amount of compounds of sulphur that it can be used without purifying, with no deleterious effect on piping and equipment.

Wet: Wet natural gas is unprocessed natural gas or partially processed natural gas, produced from strata containing condensable hydrocarbons. The term is subject to varying legal definitions as specified by certain state statutes.

GAS FACTS

Gas, Oil: A gas resulting from the thermal decomposition of petroleum oils, composed mainly of volatile hydrocarbons and hydrogen. The true heating value of oil gas may vary between 800 and 1600 Btu per cubic foot depending on the operating conditions and feedstock properties.

Gas, Substitute Natural (SNG): See Gas, Natural.

Gas Transported for Others: That volume of gas owned by another company received into and transported through any part of the transmission system under a transportation tariff.

Gate Station: Generally, a location at which gas changes ownership, from one party to another, neither of which is the ultimate consumer. It should be noted, however, that the gas may change from one system to another at this point without changing ownership. Also referred to as city gate station, town border station or delivery point.

Gathering Pipeline: See System Type.

Heating Value: The amount of heat produced by the complete combustion of a unit quantity of fuel. The gross or higher heating value is that which is obtained when all of the products of combustion are cooled to the temperature existing before combustion, the water vapor formed during combustion is condensed, and all the necessary corrections have been made. The net or lower heating value is obtained by subtracting the latent heat of vaporization of the water vapor formed by the combustion of the hydrogen in the fuel, from the gross or higher heating value.

Holder, Gas: A gas-tight receptacle or container in which gas is stored for future use. (1) at approximately constant pressure (low pressure containers) in which case the volume of the container changes; and (2) in containers of constant volume (usually high pressure containers) in which case the quantity of gas stored varies with the pressure.

Holding Company: A gas holding company is a corporation that is formed for the purpose of owning stock in other gas companies.

Horsepower, Compressor: The horsepower rating on the nameplate.

Horsepower, Mechanical: A unit of power numerically equal to a rate of 33,000 foot-pounds of work per minute or 550 foot-pounds per second.

Hydrocarbon: A chemical compound composed solely of hydrogen and carbon. The compounds having a small number of carbon and hydrogen atoms in their molecule are usually gaseous; those with a larger number of atoms are liquid and the compounds with the largest number of atoms are solid.

Industrial Service: See Class of Service.

APPENDIX A

Injury Frequency Rate, Disabling: Number of disabling injuries per million man-hours worked. Such injuries include disabilities and fatalities arising out of and occurring during the course of employment. A disabling injury is one which renders the employee unable to return to work on one or more days after the injury.

Injury Incident Rate: Number of injuries per 100 full-time employees.

Injury Severity Rate, Disabling: Number of days lost due to disabling per million man-hours worked, including appropriate time charges according to a predetermined schedule for permanent disability cases and/or fatalities. Subsequent to 1976, Severity rate is average lost workdays per injury.

Integrated Company, Gas: A company which obtains a significant portion of its gas operating revenues from the operations of both a retail gas distribution system and gas transmission system. For purposes of A.G.A. statistics, an integrated company obtains less than 95 percent but more than 5 percent of its gas operating revenues from either its retail or transmission operations or does not meet the classification of mains established for distribution or transmission companies. Compare Distribution Company, Gas; Transmission Company, Gas. See Appendix C for a list of Integrated Companies.

Interruptible Service: Low priority service offered to customers under schedules or contracts which anticipate and permit interruption on short notice, generally in peak-load seasons, by reason of the claim of firm service customers and higher priority users. Unlike Off-Peak Service, gas is available at any time of the year if the supply is sufficient.

Line Pack, Gas Delivered from: That volume of gas delivered to the markets supplied by the net change in pressure in the regular system of mains, transmission and/or distribution. For example, the change in the content of a pipeline brought about by the deviation from steady flow condition.

Liquefied Natural Gas (LNG): See Gas, Natural.

Liquefied Petroleum Gas (LPG): See Gas, Liquefied Petroleum.

Load: The amount of gas delivered or required at any specified point or points on a system; load originates primarily at the gas consuming equipment of the customers. Also, to load a pressure regulator is to set the regulator to maintain a given pressure as the rate of gas flow through the regulator varies. Compare Demand.

Local Storage: See Storage, Local.

Mcf: 1000 cubic feet.

MMBtu: 1,000,000 Btu.

MMcf: 1,000,000 cubic feet.

Main, Gas: A distribution line that serves as a common source of supply for one or more than one gas service line.

GAS FACTS

Distribution Mains: See System Type.

Field and Gathering Pipeline: See System Type.

Transmission Pipeline: See System Type.

Manufactured Gas: See Gas, Manufactured.

Marketable Natural Gas: Raw gas from which certain hydrocarbons and non-hydrocarbon compounds have been removed by processing. Marketable natural gas is often referred to as pipeline gas, residue gas, or sales gas.

Maximum Day:

Allocation: See Design Day Availability.

Sendout: See Sendout, Maximum Day.

Minimum Day: See Sendout, Minimum Day.

Naphtha: Any of various volatile, often flammable liquid hydrocarbon mixtures used chiefly as solvents and diluents and as raw materials for conversion to gasoline and substitute natural gas (SNG).

Native Base Gas: See Storage, Underground.

Natural Gas: See Gas, Natural.

Natural Gas, Associated: See Gas, Natural.

Natural Gas, Dissolved: See Gas, Natural.

Natural Gas, Dry: See Gas, Natural.

Natural Gas, Liquefied: See Gas, Natural.

Natural Gas Liquids: See Gas, Natural.

Natural Gas, Non-Associated: See Gas, Natural.

Natural Gas Reserves: See Reserves.

Natural Gas, Sour: See Gas, Natural.

Natural Gas, Sweet: See Gas, Natural.

Natural Gas, Wet: See Gas, Natural.

APPENDIX A

Natural Gasoline: Liquid removed from natural gas by absorption or refrigeration and containing hydrocarbons heavier than butane.

Off-Peak Service: Service made available on special schedules or contracts but only for a specified part of the year during the off-peak season. Compare Interruptible Service.

Oil Gas: See Gas, Oil.

Oil, Heavy: Heavy, thick and viscous oils. Usually refinery residuals commonly specified as grades 5 and 6.

Oil, Light: Generally, all oils lighter than residual fuel oils No. 5 and No. 6. Oils that have a low specific gravity, usually products of controlled distillation of crude oil but also including by-product benzol and toluol.

Peak Day: The 24-hour day period of greatest total gas sendout. Compare Design Day.

Peak Shaving: Supplying fuel gas for distribution system from an auxiliary source (of limited supply higher cost) during periods of maximum demand, when the primary source is not adequate.

Pipeline: All parts of those physical facilities through which gas is moved in transportation, including pipe, valves and other appurtenance attached to pipe, compressor units, metering stations, regulator stations, delivery stations, holders and fabricated assemblies. See System Type.

Pressure, Absolute (psia): Pressure above that of a perfect vacuum. It is the sum of gauge pressure and atmospheric pressure.

Pressure, Gauge (psig): Pounds per square inch above atmospheric pressure.

Producer Gas (Also, Manufactured Gas): A combustible gas made in a furnace or apparatus by circulating air or a mixture of air and steam through a layer of incandescent material consisting chiefly of carbon monoxide, hydrogen and nitrogen.

Propane (C_3H_8): A gaseous member of the paraffin series of hydrocarbons, which when liquefied under pressure is one of the components of liquefied petroleum (LP) gas. Contains approximately 2,500 Btu per cubic foot (at 60°F and 30" mercury, and 91,740 Btu per gallon).

Recoverable Natural Gas Reserves: See Reserves, Recoverable Natural Gas.

Refinery Gas: See Gas, Oil.

GAS FACTS

Reforming: A chemical process using heat in presence of a catalyst to break down a substance into desired components, such as in the reforming of natural gas or light oils into lower Btu fuel gas.

Repressuring: Forcing gas, under pressure, into the oil reservoir in an attempt to increase the recovery of crude oil; also done with water.

Resale Service: See Class of Service, Sales for Resale.

Reserves: Refers to the bank of natural resources, such as natural gas, natural gas liquids, petroleum, coal, lignite, and energy available from water power, and solar and geothermal energy.

Estimated Potential Natural Gas: Refers to an estimate of the ultimate finding of natural gas in a specified area, whether or not presently considered proved or recoverable.

Estimated Proved Natural Gas: An estimated quantity of natural gas which analysis of geologic and engineering data demonstrates with reasonable certainty to be recoverable in the future from known oil and gas reservoirs, under existing economic and operating conditions. Reservoirs that have demonstrated the ability to produce by either actual production of conclusive formation test are considered proved.

Saturation, Appliance or Customer: The number of specified appliances, or users, divided by the basic units or total potential of the universe involved, i.e., Gas Heating Saturation related to customers is the total number of customers with space heating divided by the total number of customers. Saturation should not be used alone but should be associated with customers, families, households, population or other qualifying terms indicating the universe referred to. For industry statistics, saturation based on customers served is used.

Sendout, Gas: Total gas produced, purchased (including exchange gas receipts), or net withdrawn from underground storage within a specified time interval, measured at the point(s) of production and/or purchase, and/or withdrawal, adjusted for changes in local storage quantity. It comprises gas sales, exchange deliveries, gas used by company and unaccounted for gas. Expressed in various units such as therms, Btu's, cubic feet, etc.

Sendout, Maximum Day: The greatest total gas sendout occurring in a specified 24-hour period. Compare Design Day; Peak Day.

Sendout, Minimum Day: The smallest actual total gas sendout occurring in a specified 24-hour period.

Service (Service Line, Service Pipe): The pipe which carries gas from the main to the customer's meter. Compare Class of Service.

Shrinkage, Natural Gas: The reduction in volume of wet natural gas due to the extraction of some of its constituents, such as hydrocarbon products, hydrogen sulfide, carbon dioxide, nitrogen, helium, and water vapor.

Storage, Buried Pipe (Bottle-Type Holder): A system of storage in especially designed high pressure pipe sections or bottles capable of storing natural gas at pressures near or equal to the pressure of maximum super-compressibility. Not storage in ordinary steel pipe.

APPENDIX A

Storage, Local: The storage facilities, other than underground storage, that are an integral part of a distribution system, i.e., on the distribution side of the city gate, whether for manufactured, mixed, natural, liquefied petroleum, or liquefied natural gases.

Storage Mains: Those mains used primarily for injection and withdrawal of gas to and from underground storage.

Storage, Underground: The utilization of subsurface facilities for storing gas which has been transferred from its original location for the primary purposes of load balancing. The facilities are usually natural geological reservoirs such as depleted oil or gas fields or waterbearing sands sealed on the top by an impermeable cap rock. The facilities also may be manmade or natural caverns.

Aquifer Storage: The storage of gas underground in porous and permeable rock stratum, the pore space of which was originally filled with water and in which the stored gas is confined by suitable structure, permeability barriers and hydrostatic water pressure.

Base Gas (Also called cushion gas): The total volume of gas which will maintain the required rate of delivery during an output cycle.

Current Gas: The total volume of gas in a storage reservoir which is in excess of the base gas. Also called Working Gas.

Extraneous Gas: See Stored Gas, this section.

Foreign Gas: See Stored Gas, this section.

Native Gas: The total volume of gas indigenous to the storage reservoir.

Storage Reservoir: That part of the storage zone having a defined limit of porosity and/or permeability which can effectively accept, retain, and deliver gas.

Storage Well: A cased bore hole, extending from the surface into the storage zone, which is used primarily for gas input and/or output purposes.

Stored Gas: Gas physically injected into a storage reservoir.

Ultimate Reservoir Capacity: The total estimated volume of gas that could be contained in storage reservoir when it is developed to the maximum design pressure.

Working Gas: Gas in an underground storage field that is available for market. May also be called Current Gas.

Straight Gas Utility: Company which derives the major portion of its total operating revenue from gas operations. For purposes of A.G.A. statistics, a straight gas utility derives at least 95 percent of its total operating revenues from gas operations.

Sub-bituminous Coal: Ranking of soft coal generally having a heating value of 8,300-13,000 Btu's/lb volatile matter and ash.

Substitute Natural Gas: See Gas, Natural.

System Type:

Distribution: Generally mains, services, and equipment which carry or control the supply of gas from the point of local supply to and including the sales meters. The system operates at various pressures as indicated below.

High Pressure: A system which operates at a pressure higher than the standard service pressure delivered to the customer; thus, a pressure regulator is required on each service to control pressure delivered to the customer. Sometimes this is referred to as medium pressure.

GAS FACTS

Low Pressure or Utilization Pressure: A system in which the gas pressure in the mains and service lines is substantially the same as that delivered to the customers' appliances; ordinarily a pressure regulator is not required on individual service lines.

Field and Gathering: A network of pipelines (mains) transporting natural gas from individual wells to compressor station, processing point, or main trunk pipeline.

Main: The network of distribution piping to which customers' service lines are attached. Generally large pipes are laid in principal streets with smaller laterals extending along side streets and connected at their ends to form a grid; sometimes laterals are brought to dead ends. Compare with Distribution, this section.

Transmission: Pipelines (Mains) installed for the purpose of transmitting gas from a source or sources of supply to one or more distribution centers, or to one or more large volume customers, or a pipeline installed to interconnect sources of supply. In typical cases transmission lines differ from gas mains in that they operate at higher pressures, are longer, and the distance between connections is greater.

Therm: A unit of heating value equivalent to 100,000 British thermal units (Btu).

Transmission Company, Gas: Company which obtains at least 95 per cent of its gas operating revenues from the operation of a gas transmission system and/or from main line sales to industrial customers. For purposes of A.G.A. statistics, a transmission company obtains at least 95 percent of its gas operating revenues from sales for resale and/or transportation of gas for others and/or main line sales to industrial customers *and* classifies at least 95 percent of mains (other than service pipe) as field and gathering, storage and/or transmission. Compare Distribution Company, Gas; Integrated Company, Gas. See Appendix C for a list of Transmission companies.

Transmission Pipeline: See System Type.

Transmission System: See System Type.

Ultimate Customer: The customer who purchases gas for consumption and not for resale purposes.

Ultimate Reservoir Capacity: See Storage, Underground.

Unaccounted for Gas: The difference between the total gas available from all sources and the total gas accounted for as sales, net interchange and company use. This difference includes leakage or other actual losses, discrepancies due to meter inaccuracies, variations of temperature and/or pressure, other variants, particularly due to measurements being made at different times, and in cycle billings, an amount of gas supply used but not billed as of the end of a period. Compare Sendout, Gas.

Underground Storage: See Storage, Underground.

Water Gas (Blue Gas): Made by passing steam over hot coke, or other carbonaceous material; it consists of carbon monoxide and hydrogen with varying amounts of carbon dioxide and nitrogen. It burns with a blue flame.

Well, Wildcat: An exploratory well being drilled in unproven territory, that is, in a horizon from which there is no production in the general area.

Wet Natural Gas: See Gas, Natural.

Working Gas: See Storage, Underground.

APPENDIX B CONVERSION TABLE

The following are some frequently used units of measure and natural gas equivalents in British thermal units (Btu). Read "=" as "contains" between volumes and energy units. The national average Btu content per cubic foot is used. For state averages, see page 88.

- 1 Cubic Foot (cf) = 0.02832 Cubic Meters = 1,023 Btu
- 1 Therm = 100,000 Btu $\approx$ 25,200 Kilocalories $\approx$ 100 Cubic Feet
- 1 Mcf = 1,000 Cubic Feet = 28.32 Cubic Meters = 1,022,500 Btu
- 1 M Therm = 100,000,000 Btu $\approx$ 25,200,000 Kilocalories
- 1 MMcf = 1,000,000 Cubic Feet = 1,022,500,000 Btu

Conversion examples:

- (1) To convert 2,325 MMcf to Btu:
(2,325 MMcf) (1,022,500,000 Btu/MMcf)
= 2,377,312,500,000 Btu
 $\approx$ 2.377 trillion Btu
- (2) To convert 5,000 trillion Btu to cubic feet:
(5,000 trillion Btu) (1 cf/1,022.5 Btu)
 $\approx$ 4.890 trillion cf (Tcf)
= 4,889,976 MMcf
- (3) To convert 22,150 million therms to Btu:
(22,150 million therms) (100,000 Btu/therm)
= 2,215,000,000 million Btu
= 2,215 trillion Btu

For comparative purposes, Btu contents of various energy sources other than natural gas are shown below.*

Fuel oil (barrel)	
Distillate	5,825,000 Btu
Residual	6,287,000 Btu
Coal (short ton)	
Bituminous and lignite	22,000,000 Btu
Anthracite	22,160,000 Btu
Electricity (kilowatt-hour)	3,412 Btu
Natural gas liquids (barrel)	3,914,000 Btu

*Energy Information Administration, Department of Energy, *Monthly Energy Review*, June 1982.

APPENDIX C

COMPANY LISTINGS

Shown below are 100 selected companies, 25 for each company type, as used in the financial and other sections of this publication. These lists are *not* meant to be *comprehensive*. Inclusion on this list does not imply individual company data may be released.

Distribution

Atlanta Gas Light Company
 Bay State Gas Company
 Boston Gas Company
 Chattanooga Gas Company
 Columbia Gas of Kentucky, Inc.
 Columbia Gas of Ohio, Inc.
 Columbia Gas of Pennsylvania, Inc.
 Columbia Gas of West Virginia, Inc.
 Elizabethtown Gas Company
 ENTEX, Inc.
 Gas Service Company, The
 Great Falls Gas Company
 Minnesota Gas Company
 Mississippi Valley Gas Company
 New Jersey Natural Gas Company
 North Shore Gas Company
 Northwest Natural Gas Company
 Peoples Gas System, Inc.
 Providence Gas Company
 Richmond Gas Corp.
 Southern Connecticut Gas Company, The
 Washington Gas Light Company
 Washington Natural Gas Company
 Wisconsin Gas Company
 Wisconsin Natural Gas Company

Transmission

Alabama Tennessee Natural Gas Co.
 Algonquin Gas Transmission Company
 Cities Service Gas Company
 Colorado Interstate Gas Company
 Columbia Gas Transmission Corporation
 Columbia Gulf Transmission Company
 East Tennessee Natural Gas Company
 El Paso Natural Gas Company
 Houston Natural Gas Corporation
 Michigan Wisconsin Pipe Line Company
 Midwestern Gas Transmission Company
 Natural Gas Pipeline Co. of America
 Northwest Pipeline Corporation
 Pacific Gas Transmission Company
 Pacific Lighting Service Company
 Panhandle Eastern Pipe Line Company
 Southern Natural Gas Company
 Texas Eastern Transmission Corporation
 Texas Gas Transmission Corporation
 Transco Companies, Inc.
 Transok Pipe Line Company
 Transwestern Pipeline Company
 Trunkline Gas Company
 United Gas Pipeline Company
 Western Slope Gas Company

Integrated

Arkansas Louisiana Gas Company
 Arkansas Oklahoma Gas Corporation
 Cascade Natural Gas Corporation
 Consolidated Gas Supply Corporation
 Energas Company
 Equitable Gas Company
 Indiana Gas Company
 Intermountain Gas Company
 InterNorth Incorporated
 Kokomo Gas & Fuel Company
 Lone Star Gas Company
 Michigan Gas Utilities Company
 Mountain Fuel Supply Company
 National Fuel Gas Company
 North Carolina Natural Gas Company
 North Penn Gas Company
 Oklahoma Natural Gas Company
 Peoples Natural Gas Co., The
 Piedmont Gas Company
 South Jersey Gas Company
 Southern California Gas Company
 Southern Union Gas Company
 Southwest Gas Corporation
 United Cities Gas Company
 Western Kentucky Gas Company

Combination

Arizona Public Service Company
 Baltimore Gas and Electric Company
 Central Illinois Light Company
 Cincinnati Gas and Electric Company
 Consolidated Edison Co. of NY Inc.
 Consumers Power Company
 Dayton Power & Light Company
 Florida Public Utilities Company
 Illinois Power Company
 Iowa Electric Light & Power Company
 Iowa-Illinois Gas & Electric Company
 Kansas Power & Light Company
 Lake Superior District Power Company
 Louisville Gas & Electric Company
 Montana-Dakota Utilities Company
 Montana Power Company
 Niagara-Mohawk Power Corporation
 Northern Indiana Public Service Company
 Pacific Gas & Electric Company
 Philadelphia Electric Company
 Public Service Co. of Colorado
 Public Service Electric & Gas Company
 San Diego Gas & Electric Company
 Virginia Electric & Power Company
 Wisconsin Public Service Corporation

INDEX

—Page Numbers—

- Accident Rates
 - by industry, 191
 - by type of company, 192
- Analytical Ratios
 - combination companies, 181, 182
 - distribution companies, 178, 182
 - integrated companies, 180
 - total industry, 177
 - transmission companies, 179, 182
- Appliances
 - gas consumption, by type, 137
 - manufacturer shipments, 134-136
- Assets (see Balance Sheets)
- Balance Sheets
 - combination companies, 173
 - distribution companies, 170
 - integrated companies, 172
 - total industry, 169
 - transmission companies, 171
- Bill, Annual Residential, 125, 127
- Bituminous Coal (see Coal)
- Boilers, 135, 136
- Bonds (see Security Issues, Balance Sheets)
- Btu Values
 - conversion rules, 205
 - by state, 88
- Canada, Reserves of Natural Gas, 20, 21
- Capital Expenditures, 185
- Capitalization (see Balance Sheets, Analytical Ratios)
- Clothes Dryers, 134, 135
- Coal
 - consumption, 68-71
 - production, 31
 - reserves, 16
- Combination Companies (see Finance, Labor, Sales)
- Common Stock (see Security Issues, Balance Sheets)
- Compressors
 - historical data, 59
 - by transmission company, 64
 - in underground storage fields, 55
- Construction Expenditures, 185, 186
- Consumer Prices, Indexes of, 118
- Consumption
 - commercial, 72, 73
 - historical data, 72, 74, 125
 - industrial, 72, 73
 - mineral energy resources and electricity, 68, 70, 71
 - per capita, 71
 - residential, 72-74, 125
 - by state, 73, 74
 - (see also Sales)
- Crude Oil, Reserves and Production, 18, 19
 - (see also Petroleum, Wells)
- Customers
 - commercial, 77, 78, 83
 - historical data, 77, 79
 - househeating, 80, 82
 - industrial, 77, 78, 83
 - quarterly, 83
 - residential, 77, 78, 83
 - by state, 78, 79
- Death Rates, 191
- Debenture Issues (see Security Issues, Balance Sheets)
- Debt Issues (see Security Issues, Balance Sheets)
- Degree Day, 101
- Depreciation (see Balance Sheets)
- Disabling Injury and Severity Rates (see Accident Rates)
- Disposition, Gas, 24, 25
- Distribution (see Finance, Labor, Sales)
- Dividends
 - common stock, 145
 - payout ratio, 177-181
 - (see also Income Accounts)
- Drilling (see Wells)
- Earnings, Retained (see Balance Sheets)
- Electric Generation
 - gas consumed for, 93
 - gas utility sales for, 94, 95
 - prices, 129
 - revenues from gas for, 112, 113
- Electricity
 - consumption, 68, 70, 71
 - retail prices, 125
 - production, 31
- Employment (see Labor)
- Energy (see Consumption, Energy Reserves, Production)
- Energy Reserves
 - Canada, 20, 21
 - coal, 16
 - crude oil, 17-19
 - lignite, 16
 - liquid hydrocarbons, 17
 - natural gas, 6, 10, 11
 - natural gas liquids, 13-15
- Equity (see Balance Sheets, Analytical Ratios)
- Exports, 33
- Field Use of Gas, 25
- Finance (see Analytical Ratios, Balance Sheets, Construction Expenditures, Income Accounts, Security Issues)
- Firm Gas Sales
 - quantities, 92, 94, 95
 - revenues, 112, 113
- Furnaces, 135, 136
- Glossary, 193-204
- Gross Production Data, 26

INDEX

- Heating Degree Day Normals, 101
- Heating Equipment, 134-136
- Heating Saturations, 80, 82
- Holes Drilled, 41, 42
- Househeating Customers (see Customers)
- House Units, Gas Heated, 80, 138-140
- Housing Units, Using Fuels For
 - clothes drying, 142
 - cooking, 141
 - househeating, 138-140
 - water heating, 142
- Hydropower, Energy Consumption, 68, 70, 71
- Imports, 33
- Income Accounts
 - combination companies, 164
 - distribution companies, 161
 - integrated companies, 163
 - total industry, 160
 - transmission companies, 162
 - (see also Maintenance Expenses, Operation Expenses)
- Indexes of
 - consumer prices, 118
 - industrial production, 71
 - wholesale prices of gas, 131
- Injury Frequency (see Accident Rates)
- Integrated Companies (see Finance, Labor, Sales)
- Interruptible Gas Sales
 - quantities, 92, 95
 - revenues, 111-113
- Interstate Shipments of Natural Gas, 65
- Labor
 - accident frequency and severity rates, 191, 192
 - death rates of workers, 191
 - employees, 189, 190
 - payroll, 189, 190
- Large Volume Revenues, 114
- Large Volume Sales, 96
- Liabilities (see Balance Sheets)
- Lignite (see Coal)
- Liquefied Petroleum Gas Sales, 103
 - natural gas treated for, 35
- Liquid Hydrocarbons
 - historical data, 17
- Liquids, Natural Gas
 - consumption, 70, 71
 - reserves, 13-15
- LNG Terminals, 47
- Mains, Gas (see Pipelines and Mains)
- Maintenance Expenses, 165
- Marketed Production of Natural Gas, 28
- Maximum Day Send-Out, 24
- Metals Used by Gas Utility Industry, 63
- Mileage, Pipeline
 - (see Pipelines and Mains)
- Mineral Fuels Consumption, 68-71
- Minimum Day Send-Out, 24
- Naphtha, 35
- Natural Gasoline, 35
- Net Income (see Income Accounts)
- Net Production of Natural Gas, 27
- New-field Wildcat Wells Drilled, 38
- New Well Completions, 38, 40
- Note Issues (see Security Issues)
- Nuclear Power Consumption, 68, 70, 71
- Offshore
 - drilling, 43
 - production, 11, 17, 32
 - reserves, 11, 17
- Oil (see Crude Oil, Petroleum, Wells)
- Operating Revenues of Major Systems, 64
 - (see also Income Accounts, Analytical Ratios)
- Operation Expenses, 165
- Peak Day Send-Out of Major Transmission Systems, 64
- Peak Shaving Facilities, 24
- Personnel (see Labor)
- Petroleum
 - consumption, 68-71
 - production, 31
 - (see also Crude Oil, Wells)
- Pipelines and Mains
 - installed, 62
 - by size, 63
 - by state, 60, 61
 - by transmission company, 64
 - by type, 59
- Plastic Pipe, 62, 63
- Pools
 - aquifer storage, 51
 - by state, 54
 - underground storage, 50
- Population, U.S., 71
- Preferred Stock
 - (see Security Issues, Balance Sheets)
- Prices
 - city-gate, 124
 - commercial, 120, 121
 - fuels and electricity, 125
 - historical data, 119, 120, 122-125, 128-130
 - industrial, 120, 121
 - resale, 130
 - residential, 120-122, 125
 - by state, 119, 121-123, 129, 130
 - wellhead, 119, 124
 - (see also Indexes)
- Production
 - Canadian natural gas, 20, 21
 - coal, 31
 - crude oil, 17-19, 31
 - electricity, 31
 - liquefied petroleum gases, 35
 - liquid hydrocarbons, 17
 - naphtha, 35
 - natural gas
 - gross, 25, 26, 31
 - by interstate pipelines, 102
 - marketed, 25, 28
 - net, 6, 11, 25, 27, 29
 - natural gas liquids, 13-15
 - natural gasoline, 35
 - nuclear power, 31
 - offshore crude oil, 17
 - water power, 31

INDEX

- Proved Reserves (see Energy Reserves)
- Purchased Gas Cost, 165
- Quantities (see Sales)
- Ranges, 134-137
- Rate of Return, 177-181
- Repressuring, Gas For, 25
- Resale
 - prices, 130
 - revenues from gas for, 110
 - sales of gas for, 91
- Reserves (see Energy Reserves)
- Reservoirs (see Underground Storage)
- Residential Consumption, 72-74, 125
- Retail Prices of Fuels, 125
- Retained Earnings (see Balance Sheets)
- Return on Common Equity
 - (see Analytical Ratios)
- Revenues
 - commercial, 107, 108, 111, 116
 - firm, 111-113
 - from gas for electric generation, 112, 113
 - from gas for resale, 110
 - historical, 107, 109, 110, 112
 - industrial, 107, 108, 111-116
 - by industry, '14, 115
 - interruptible, 111-113
 - quarterly, 116
 - residential, 107, 108, 116
 - by state, 108
- Sales (Quantities)
 - liquefied petroleum gases, 103
 - natural gas
 - commercial, 87, 88, 92, 100
 - by company, 90
 - for electric generation
 - by gas utility industry, 96
 - historical data, 93
 - firm, 92, 94, 95
 - historical, 87, 89, 91, 94, 97, 99
 - industrial, 87, 88, 92, 94, 95, 100
 - by industry, 96, 97
 - interruptible, 92, 94, 95
 - monthly, 99
 - quarterly, 100
 - for resale, 91
 - residential, 87, 88, 100
 - by state, 88, 89, 91-93, 95, 102
- Satellite Plants, LNG, 51
- Security Issues
 - common stock
 - historical data, 145
 - prices, dividends, yields, 149
 - by type of company, 148
 - coverage
 - historical data, 146
 - by type of company, 151, 153, 155
- debt issues
 - bonds
 - historical data, 145, 146
 - by type of company, 152, 153
 - debentures
 - historical data, 145, 146
 - by type of company, 154, 155
 - notes
 - historical data, 145
 - by type of company, 156
- preferred stock
 - historical data, 145, 146
 - by type of company, 150, 151
 - (see also Balance Sheets, Analytical Ratios)
- Shipments
 - gas appliances, 134-136
 - interstate gas, 65
- Steel Pipe, 62, 63
- Storage (see Underground Storage)
- Supply and Disposition of Natural Gas, 24
- Taxes (see Income Accounts, Analytical Ratios)
- Terminals, LNG Imports, 50
- Transfers of Gas, 95
- Transmission
 - interstate shipments of natural gas, 65
 - major system statistics, 64
 - (see also Compressors, Finance, Labor, Pipelines and Mains, Sales)
- Transportation, Energy Consumed For, 68
- Underground Storage
 - aquifer pools, 51
 - gas in, 53
 - LNG operations, 51
 - reservoirs and ultimate capacity
 - historical data, 50
 - by state, 54-56
 - (see also Compressors, Wells)
- Utility Plant, 174
- Water Heaters, 134-137
- Water Power
 - consumption, 68, 70, 71
 - production, 31
- Wellhead Price of Natural Gas, 119, 124
- Wells
 - drilled
 - expenditures, 43, 44
 - exploratory tests, 38, 41, 42
 - footage, 43
 - new-field wildcat, 38, 41
 - offshore operations, 43
 - producing gas, 37, 38, 40
 - new completions, 37-40
 - producing gas, 36
 - underground storage fields, active in, 54
- Wholesale Prices of Gas, Indexes of, 131

To: Users of *Gas Facts*

To facilitate answering any questions that might arise concerning data in *Gas Facts*, a list of data specialists for the different areas reported is provided below:

- Section II: Energy Reserves—Aileen Bohn, 703-841-8496
- Section III: Natural Gas Production—Aileen Bohn
- Section IV: Underground Storage—Laura Cover, 703-841-8507
- Section V: Transmission and Distribution—Joe Roccanova, 703-841-8502
- Section VI: Energy Consumption—Joe Roccanova
- Section VII: Customers—Laura Cover
- Section VIII: Sales-Quantities—Shirley Fontaine, 703-841-8503
- Section IX: Revenues—Shirley Fontaine
- Section X: Prices—Shirley Fontaine
- Section XI: Appliance and Housing Data—Laura Cover
- Section XII: Finance—Pat Curley, 703-841-8497
- Section XIII: Personnel Data—Joe Roccanova